



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 162378

TO: Ulrike Winkler
Location: REM-3A39&3C18
Art Unit: 1648
Monday, August 22, 2005

Case Serial Number: 09/303510

From: Edward Hart
Location: Biotech-Chem Library
REM-1A55
Phone: 571-272-2512

edward.hart@uspto.gov

Search Notes

Examiner Winkler,

Here are the results of the search you requested.

Please feel free to contact me if you have any questions.

Edward Hart

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STIC-Biotech/ChemLib

162378

From: Winkler, Ulrike
Sent: Friday, August 12, 2005 12:08 PM
To: STIC-Biotech/ChemLib

STIC,

Please search the interference files for SEQ ID NO 5 and 6 of 09/303510.

Thanks, Ulrike

Ulrike Winkler, Ph.D.
Patent Examiner, Art Unit 1648
Remsen 3A39 / Mail Box 3C18
tel. 571-272-0912
fax. 571-273-0912

CRFE

STAFF USE ONLY

Searcher: _____
Searcher Phone: 2- _____
Date Searcher Picked up: 8/17/05
Date Completed: 8/22/05
Searcher Prep/Rev. Time: _____
Online Time: _____

Type of Search

NA#: 1 AA#: 1
Interference: _____ SPDI: _____
S/L: _____ Oligomer: _____
Encode/Transl: _____
Structure#: _____ Text: _____
Inventor: _____ Litigation: _____

Vendors and cost where applicable

STN: _____
DIALOG: _____
QUESTEL/ORBIT: _____
LEXIS/NEXIS: _____
SEQUENCE SYSTEM: 8/17/05
WWW/Internet: _____
Other(Specify): _____

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STIC SEARCH RESULTS FEEDBACK FORM

Biotech-Chem Library

Questions about the scope or the results of the search? Contact *the searcher or contact*:

Mary Hale, Information Branch Supervisor
Remsen Bldg. 01 D86
571-272-2507

Voluntary Results Feedback Form

➤ I am an examiner in Workgroup: Example: 1610

➤ Relevant prior art **found**, search results used as follows:

- ☐ 102 rejection
- ☐ 103 rejection
- ☐ Cited as being of interest.
- ☐ Helped examiner better understand the invention.
- ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature
(journal articles, conference proceedings, new product announcements etc.)

➤ Relevant prior art **not found**:

- ☐ Results verified the lack of relevant prior art (helped determine patentability).
- ☐ Results were not useful in determining patentability or understanding the invention.

Comments:

Drop off or send completed forms to STIC-Biotech-Chem Library Remsen Bldg.



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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: August 19, 2005, 23:16:32 ; Search time 219 Seconds

(without alignments)

8069.310 Million cell updates/sec

Title: US-09-303-510-5

Perfect score: 1080

Sequence: 1 gttctgtgtcttcctcgga.....tggttggtgctgacaaat 1080

Scoring table: IDENTITY NUC

Gapop 10.0, Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

- Issued Patents NA:*
- 1: /cgn2_6/ptodata/1/ina/5A COMB.seq.*
 - 2: /cgn2_6/ptodata/1/ina/5B COMB.seq.*
 - 3: /cgn2_6/ptodata/1/ina/6A COMB.seq.*
 - 4: /cgn2_6/ptodata/1/ina/6B COMB.seq.*
 - 5: /cgn2_6/ptodata/1/ina/PTCUS COMB.seq.*
 - 6: /cgn2_6/ptodata/1/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1080	100.0	1080	4	US-09-303-040-5
2	580.6	53.8	1424	3	US-09-326-186B-226
3	580.6	53.8	1424	4	US-09-441-411-21
4	580.6	53.8	1428	5	PCT-US94-09642-1
5	580.6	53.8	1600	4	US-09-949-016-5261
6	552.6	51.2	1161	3	US-08-205-697A-24
7	552.6	51.2	1161	3	US-08-702-525-24
8	552.6	51.2	1161	4	US-09-837-867A-24
9	552.6	51.2	1161	5	PCT-US95-02576-24
10	533.2	49.4	1002	3	US-09-039-982A-33
11	533.2	49.4	1002	3	US-09-039-641-33
12	533.2	49.4	1002	3	US-09-039-762A-33
13	533.2	49.4	1002	3	US-09-042-492D-33
14	533.2	49.4	1002	3	US-08-913-612A-33
15	533.2	49.4	1002	4	US-10-266-463A-33
16	533.2	49.4	1112	4	US-09-441-411-25
17	533.2	49.4	1120	2	US-08-456-104-1
18	533.2	49.4	1120	2	US-08-101-624-1
19	533.2	49.4	1120	3	US-08-479-744A-1
20	533.2	49.4	1120	3	US-08-280-757B-1
21	533.2	49.4	1120	3	US-08-205-697A-22
22	533.2	49.4	1120	3	US-08-702-525-22
23	533.2	49.4	1120	3	US-08-403-253A-3
24	533.2	49.4	1120	4	US-08-435-816A-3
25	533.2	49.4	1120	4	US-09-425-762-1
26	533.2	49.4	1120	4	US-09-837-867A-22
27	533.2	49.4	1120	4	US-09-206-132-1

28	533.2	49.4	1120	4	US-09-425-516-1
29	533.2	49.4	1120	5	PCT-US95-02576-22
30	528.2	48.9	972	3	US-08-848-760B-11
31	528.2	48.9	972	4	US-09-826-025-11
32	434.6	40.2	751	3	US-09-039-982A-34
33	434.6	40.2	751	3	US-09-039-641-34
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37	434.6	40.2	751	4	US-10-266-463A-34
38	429.6	39.8	1056	4	US-09-756-983-17
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40	335.4	31.1	1261	3	US-08-702-525-12
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42	335.4	31.1	1261	5	PCT-US95-02576-12
43	329.6	30.5	1151	2	US-08-456-104-3
44	329.6	30.5	1151	3	US-08-205-697A-20
45	329.6	30.5	1151	3	US-08-702-525-20

ALIGNMENTS

RESULT 1

US-09-303-040-5

; Sequence 5, Application US/09303040

; Patent No. 6555671

; GENERAL INFORMATION:

; APPLICANT: Winslow, Barbara J.

; APPLICANT: Cochran, Mark D.

; TITLE OF INVENTION: Recombinant Virus Expressing Foreign DNA Encoding

; TITLE OF INVENTION: Feline CD80, Feline CD86, Feline CD28, Feline CTLA-4 or

; TITLE OF INVENTION: Feline Interferon-gamma And Uses Thereof

; FILE REFERENCE: 54957-B

; CURRENT APPLICATION NUMBER: US/09/303,040

; CURRENT FILING DATE: 1999-04-30

; EARLIER APPLICATION NUMBER: 60/083,870

; EARLIER FILING DATE: 1998-05-01

; NUMBER OF SEQ ID NOS: 82

; SOFTWARE: Patentin Ver. 2.0

; SEQ ID NO 5

; LENGTH: 1080

; TYPE: DNA

; ORGANISM: feline CD86

; FEATURE:

; NAME/KEY: CDS

; LOCATION: (63)..(1052)

; US-09-303-040-5

Query Match 100.0%; Score 1080; DB 4; Length 1080;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1080; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	GTTCCTGTGTCTCTCGGAATGTCACGTGAGCTTATACATCTGTGCTCTGGAGCTGCAGT	60
Db	1	GTTCCTGTGTCTCTCGGAATGTCACGTGAGCTTATACATCTGTGCTCTGGAGCTGCAGT	60
Qy	61	GGATGGGCATTTGTGACAGCAGCTATGGAGTGTGACACTCTCTTGTGATGCCCTCC	120
Db	61	GGATGGGCATTTGTGACAGCAGCTATGGAGTGTGACACTCTCTTGTGATGCCCTCC	120
Qy	121	TGCTCTCTGTGTCTTCTTCCATGAAGAGTCAAGCATATTTCAACAGACTGGAGAACTGC	180
Db	121	TGCTCTCTGTGTCTTCTTCCATGAAGAGTCAAGCATATTTCAACAGACTGGAGAACTGC	180
Qy	181	CATGCCATTTTCAAACTCTCAAAACATAGCTGGATGAGCTGGTAGTATTTTGGCAGG	240
Db	181	CATGCCATTTTCAAACTCTCAAAACATAGCTGGATGAGCTGGTAGTATTTTGGCAGG	240
Qy	241	ACCAGGATAGCTGGTTCTGTATGAGATATTAGAGGCAAGAGACCCCTCAAAATGTTTC	300
Db	241	ACCAGGATAGCTGGTTCTGTATGAGATATTAGAGGCAAGAGACCCCTCAAAATGTTTC	300

QY 301 ATCTCAATATTAAGGCGGTACAGCTTTGACAAGGACCAACTGGACCTGAGACTCCACA 360
Db 301 ATCTCAATATTAAGGCGGTACAGCTTTGACAAGGACCAACTGGACCTGAGACTCCACA 360
QY 361 ATGTTCCAGATCAAGGACCAAGGCGACATATCACTGTTTCAATTAATTAAGGCGCCCAAG 420
Db 361 ATGTTCCAGATCAAGGACCAAGGCGACATATCACTGTTTCAATTAATTAAGGCGCCCAAG 420
QY 421 GACTAGTCCCATGACCAAAATGAGTCTGACACCTATCAGTGTCTGTAACCTTCAGTCAAC 480
Db 421 GACTAGTCCCATGACCAAAATGAGTCTGACACCTATCAGTGTCTGTAACCTTCAGTCAAC 480
QY 481 CTGAATAACAGTAACCTTCTAAATAGAACAGAAATTTCTGACATCAATAATTTGACCTGCT 540
Db 481 CTGAATAACAGTAACCTTCTAAATAGAACAGAAATTTCTGACATCAATAATTTGACCTGCT 540
QY 541 CATCTATACAAGGTTTACCCAGAACCTTAAGGAGATGTAATTTTTCAGTCAAACTGGAAT 600
Db 541 CATCTATACAAGGTTTACCCAGAACCTTAAGGAGATGTAATTTTTCAGTCAAACTGGAAT 600
QY 601 CAATCTAGTATGATGATCTGATGAGAAATCTCAAAATTAATGTGACAGAACTGTACA 660
Db 601 CAATCTAGTATGATGATCTGATGAGAAATCTCAAAATTAATGTGACAGAACTGTACA 660
QY 661 AGTTTCTATCAGCTTGCCTTTTTCAGTCCCTGAAGCACAAATGTGAGCGTCTTTTGTG 720
Db 661 AGTTTCTATCAGCTTGCCTTTTTCAGTCCCTGAAGCACAAATGTGAGCGTCTTTTGTG 720
QY 721 CCCTGAACTGGAGACACTGGAGATGCTCTCCCTACCTTTCAATATAGATGCAAC 780
Db 721 CCCTGAACTGGAGACACTGGAGATGCTCTCCCTACCTTTCAATATAGATGCAAC 780
QY 781 CTAAGGATAAAGACCTGTAACAGGCGACTTCTCTGATGAGGCTGTACTTGTAAATGT 840
Db 781 CTAAGGATAAAGACCTGTAACAGGCGACTTCTCTGATGAGGCTGTACTTGTAAATGT 840
QY 841 TTGTTGTTTTCAGTGGATGCTGCTTTTAAACACTTAAGGAAAGGAGAAAGAGAGCAGC 900
Db 841 TTGTTGTTTTCAGTGGATGCTGCTTTTAAACACTTAAGGAAAGGAGAAAGAGAGAGCAGC 900
QY 901 CTGCGCCCTCTCATGATGTAACCAATCAAAAGGAGAGAGAGAGAGAGAGAGAGAGAGAG 960
Db 901 CTGCGCCCTCTCATGATGTAACCAATCAAAAGGAGAGAGAGAGAGAGAGAGAGAGAGAG 960
QY 961 ACAAGAGTACATACCACTACCTGAGAGATCTGATGAGGCGGCTGTGTTAACTTT 1020
Db 961 ACAAGAGTACATACCACTACCTGAGAGATCTGATGAGGCGGCTGTGTTAACTTT 1020
QY 1021 TGAAGCAGCTCAGGGGACAAAATCAGTAGGAAATGCTGCTGGCGCTGTGACAAT 1080
Db 1021 TGAAGCAGCTCAGGGGACAAAATCAGTAGGAAATGCTGCTGGCGCTGTGACAAT 1080

RESULT 2

US-09-326-186B-226
; Sequence 226, Application US/09326186B
; Patent No. 6319906
; GENERAL INFORMATION:
; APPLICANT: Bennett, Clarence Frank
; APPLICANT: Vickers, Timothy A.
; TITLE OF INVENTION: Oligonucleotide Compositions and Methods for the
; TITLE OF INVENTION: Modulation of the Expression of B7 Protein
; FILE REFERENCE: JSPH-0376
; CURRENT APPLICATION NUMBER: US/09/326,186B
; PRIOR FILING DATE: 1999-06-04
; PRIOR APPLICATION NUMBER: 08/777,266
; PRIOR FILING DATE: 1996-12-31
; NUMBER OF SEQ ID NOS: 226
; SOFTWARE: PatentIn ver. 2.0
; SEQ ID NO 226
; LENGTH: 1424
; TYPE: DNA
; ORGANISM: Homo sapien

US-09-326-186B-226
Query Match 53.8%; Score 580.6; DB 3; Length 1424;
Best Local Similarity 75.9%; Pred. No. 2.3e-178;
Matches 802; Conservative 0; Mismatches 234; Indels 21; Gaps 6;
QY 1 GTTCTGCTGCTCTCTGGGAATGTCACTGAGCTTTATACATCTGCTCTCTG---GGAGCTGC 57
Db 62 GCTTCTGCTGCTCTCTGGGAATGTCTGCTGCTTATGATCTGCTCTCTTTTGGAGCTAC 121
QY 58 AGTGAATGGGCAATTTGTGACAGCACTATGGGACTGAGTCACTCTCTCTGTGATGGCCC 117
Db 122 AGTGACAGGCAATTTGTGACAGCACTATGGGACTGAGTCACTCTCTTTGTGATGGCCT 181
QY 118 TCTGCTCTCTGCTGCTTCTTCCATGAAGAGTCAAGCATATTTCAACAGAGCTGGAGAAC 177
Db 182 TCTGCTCTCTGCTGCTCTCTCTGAAGATTCAAGCTTATTTCAATGAGACTGCAGACC 241
QY 178 TGCATGCTCATTTTACAAACTCTCAAAACATAAGCTCTGATGAGCTGAGTGTAGTATTTTGGC 237
Db 242 TGCATGCTCATTTTGCAAACTCTCAAAACATAAGCTCTGATGAGCTGAGTGTAGTATTTTGGC 301
QY 238 AGGACAGGATAGCTGCTTCTGTATGATATTCAGAGGCAAGAGAAACCTTCAAAATG 297
Db 302 AGGACAGGAAACTTGGTCTCTGAATGAGTATCTTAGGCAAGAGAAATTTGACAGTG 361
QY 298 TTCATCTCAATATAAGGCGCTTACAGCTTTTGACAGGACAACTGGACCTGAGACTCC 357
Db 362 TTCATTTCCAAAGTATATGGGCGCCCAAGGTTTGTATCGGACAGTGGACCTGAGACTTC 421
QY 358 ACAATGCTCAGATCAAGGCAAGGCGACATACCTCTGTTTCAATTTCAATTAAGGCGCCA 417
Db 422 ACAATCTCAGATCAAGGCAAGGCGCTTGTATCAATGATATCATTCATCAAAAGAGCCCA 481
QY 418 AAGGACTAGTTCCCATGCAACCAAGTGTGAGCTATGAGCTATCAGTGTGTCTTAACCTCAGTC 477
Db 482 CAGGAATGATTCGCATCCACAGATGAATCTCTGAACTGTCTGAGTGTCTGTAACCTCAGTC 541
QY 478 AACCTGAATAACAGTAACTTCTTAATAGAACAGAAATTTCTGGCATCATTAATTTGACCT 537
Db 542 AACCTGAATAAGTACCAATTTCTTAATATAACAGAAAA---TGTGTACATAAATTTGACCT 598
QY 538 GCTCATCTATACAAGGTTTACCAGAACCTTAAGGAGATGTAATTTTTCAGCTAAAACACTGAGA 597
Db 599 GCTCATCTATACAAGGTTTACCAGAACCTTAAGGAGATGAGTGTTTTGTCTAAGAACCAAGA 658
QY 598 ATTCAACTACTAAGTATGATGCTCATGAAGAAATCTCAAAATAATATGTGACAGAACTGT 657
Db 659 ATTCAACTACTAAGTATGATGCTCATGAAGAAATCTCAAGAAATCTCAAGATAATGTCAAGAACTGT 718
QY 658 ACNACGTTTCTATCAGCTTGCCTTTTTCAGTCCCTGAAG---CACACAATGTGAGCGTCT 714
Db 719 ACNACGTTTCCATCAGCTTGTCTGTTTCAATTCCTGATGTTAGGACAAATATGACCATCT 778
QY 715 TTTGTGCCCTGAAACTGGAGACACTGGAGATGCTGCTCTCCCTACCTTTCAATATAGATG 774
Db 779 TCTGTATTTCTGGAACCTGACA---AGACGGGCTTTTATCTTCACCTTTCTCTATAG--- 832
QY 775 CACAACCTAAGGATAAAGACCCCTGAAACAAGGCGACTTCTCTGATTTGGCGCTGTACTTG 834
Db 833 ---AGCTTGAAGACCCCTCAGCCTCCCGACAGACACATCTCTGATTTACAGCTGTACTTC 889
QY 835 TAATGTTTGTGTTTGTGTTTGTGGATGCTGCTTTTAAACACTTAAGGAAAGAGAGAAAGA 894
Db 890 CAACAGTTTATATATGTTGATGTTGTTTCTGTTCTAATTTCTATGGAATTTGGAAGAGAGA 949
QY 895 AGCAGCTGCGCCCTCTCATGAATGTGAACCACTCAAAAGGGAGAGAGAGAGAGAGAGAGAG 954
Db 950 AGCGGCTGCAACTCTTATTAATGTGGAACCAACACATTTGAGAGAGAGAGAGAGAGAGAG 1009
QY 955 AGACCAACGAAAGAGTACCATACCGTACCTGAGAGATCTGTATGAAGCCCGTGTG--- 1011
Db 1010 AGACCAAGAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1069

QY 1012 TTAACATTTTGAAGACAGCCTCAGGGGACAAAATCA 1048
|||||
Db 1070 TTAAGAGTTCGAGACATCTTTCATCGCACAAGTGA 1106
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RESULT 3

US-09-441-411-21

; Sequence 21, Application US/09441411

; Patent No. 6734172

; GENERAL INFORMATION:

; APPLICANT: Scholler, Nathalie B.

; APPLICANT: Disis, Mary L.

; APPLICANT: Hellstrom, Ingegerd

; APPLICANT: Hellstrom, Karl Erik

; FILE OF INVENTION: SURFACE RECEPTOR ANTIGEN VACCINES

; FILE REFERENCE: 730033.409

; CURRENT APPLICATION NUMBER: US/09/441.411

; CURRENT FILING DATE: 1999-11-16

; NUMBER OF SEQ ID NOS: 26

; SOFTWARE: Fast-SEQ for Windows Version 4.0

; SEQ ID NO 21

; LENGTH: 1424

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-441-411-21

Query Match 53.8%; Score 580.6; DB 4; Length 1424;

Best Local Similarity 75.9%; Pred. No. 2.3e-178;

Matches 802; Conservative 0; Mismatches 234; Indels 21; Gaps 6;

QY 1 GTTCTGTGTCCTCGGGAATGTCATGAGCTTATATACATCTGGTCTCTG---GGAGCTGC 57
|||||
Db 62 GCTTCTGTGTCCTTGGGAATGCTGCTGTATGTCATCTGGTCTCTTTTGGAGCTAC 121
|||||
QY 58 AGTGGATGGCATTTGTGACAGCACTATGGAGCTAGTCACTCTCTCTTGTGATGGCCC 117
|||||
Db 122 AGTGGACAGCATTTGTGACAGCACTATGGAGCTAGTCACTCTCTTGTGATGGCCT 181
|||||
QY 118 TCTGTCTCTGCTGCTGCTTCTTCCATGAAGAGTCAAGCATATTTCAACAGCACTGGAGAAC 177
|||||
Db 182 TCTGTCTCTGCTGCTGCTTCTTGAAGATTTCAAGCTTATTTCAATGAGACTGCAGACC 241
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QY 178 TGGCATGCCATTTTACAACTCTCAAAACATAGCTTGGATGAGCTGGTAGTATTTTGGC 237
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Db 242 TGGCATGCCAATTTGCAAACTCTCAAAACCAAGCCTGAGTGAAGTATTTTGGC 301
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QY 238 AGGACAGGATAGCTGGTCTGTATGAGATATTTGAGAGGCAAGAAACCTTCAAAATG 297
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Db 302 AGGACAGGAAATCTGGTCTGAATGAGGTATATTTAGGCAAGAGAAATTTGACAGTG 361
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QY 298 TGCATCTCAATATAGGGCGGTACAGCTTTGACAGGCAACTGGACCTCAGACTCC 357
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Db 362 TTAATTCAGATATATGGGCGGCAAGTTTGAATTCGGACAGTTGGACCTCAGACTTC 421
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QY 358 ACAATGTTTCAGATCAAGGCAAGGGCAGATATCACTGTTTCATTATATAAAGGGCCCA 417
|||||
Db 422 ACAATCTTCAGATCAAGGCAAGGGCTTGTATCAATGATATCATCCATCAAAAAGCCCA 481
|||||
QY 418 AAGACTAGTTCCTCATGCAAAATAGTGTCTGACCTTATCAGTCTGCTTGAATCTCAGTC 477
|||||
Db 482 CAGGAATGATTCGATCCACAGATGAATCTGAACTGTGCTGCTTGAATCTTCACTCAGTC 541
|||||
QY 478 AACCTGAAATACAGTAACTTCTTAATAGACAGAAATTTGGCATCATATAAATTTGACCT 537
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Db 542 AACCTGAAATAGTACCAATTTCTTAATATAACAGAAA---TGTGTACATAAATTTGACCT 598
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QY 538 GCTCATCTATACAGGTTTACCAGAACTTAAGAGATGATATTTTCACTAAACACTGAGA 597
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Db 599 GCTCATCTATACAGGTTTACCAGAACTTAAGAGATGATGTTTGTCTAAGAACCAAGA 658
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QY 598 ATTCAACTACTAGTATGATCTGTCTATGAAGAAATCTCAAAATATATGTGACAGAACTGT 657
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Db 659 ATTCAACTATCGAGTATGATGTTATTCAGAGAAATCTCAAGATATATGTCACAGAACTGT 718
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QY 658 ACAACGTTTCTATCAGCTTGCCTTTTTCAGTCCCTGAAG---CACACAATGTGAGCGTCT 714
|||||
Db 719 ACGACGTTTCCATCAGCTTGTCTGTTTCAATTCCTGATGTTTACGAGCAATATGACCATCT 778
|||||
QY 715 TTTGTGCTTGAACACTGGAGACACTGGAGATGCTCTCCCTACCTTTTCAATATAGATG 774
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Db 779 TCTGTATTCTGGAAACTGACA---AGACGCGGCTTTTATCTTCCACCTTTCTCTATAG--- 832
|||||
QY 775 CACAACCTAAGGATAAAGACCTTGAACAAGCCCTTGAACAAGCCCTTCTCTGATTTGGCGGTGACTTG 834
|||||
Db 833 ---AGCTTGAGGACCTCAGCCTCCCGACAGACACATTCCTTGGATTACAGCTGTACTTC 889
|||||
QY 835 TAATGTTTGTGTTTGTGGGATGGTGTCTTTTAAACACACTAAGGAAAGGAAGAAGA 894
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Db 890 CAACAGTTATATATGTTGATGTTTCTGTCTAATTTCTATGAAATGGAAGAAGAAGA 949
|||||
QY 895 AGCAGCTGCGCCCTCTCATGAATGTGAACCACTCAAAAGGGAGAGAGAGAGCAAAAC 954
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Db 950 AGCGGCTCGCAACTCTTATAATGTGGAACCAACACAAATGGAGAGGGAAGAGAGTGAAC 1009
|||||
QY 955 AGACCAACGAAGAGTACCATACAGCTACCTGAGAGATCTGATGAAGCCAGTGTG--- 1011
|||||
Db 1010 AGACCAAGAAAGAGAAAAATCCATATACCTGAAAGATCTGATGAAGCCAGCGTGT 1069
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QY 1012 TTAACATTTTGAAGACAGCCTCAGGGGACAAAAATCA 1048
|||||
Db 1070 TTAAGATTCGAGACATCTTCATGCGACAAAAGTGA 1106
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RESULT 4

PCT-US94-09642-1

; Sequence 1, Application PC/TUS9409642

; GENERAL INFORMATION:

; APPLICANT:

; TITLE OF INVENTION: Purified Mammalian CTLA-4 Binding

; TITLE OF INVENTION: Protein and Related Reagents

; NUMBER OF SEQUENCES: 2

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Schering-Plough Corporation, M-3-W

; STREET: One Giralda Farms

; CITY: Madison

; STATE: New Jersey

; COUNTRY: USA

; ZIP: 07940-1000

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: Apple Macintosh Iici

; OPERATING SYSTEM: System Software 7.1

; SOFTWARE: Microsoft Word 5.1a

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: PCT/US94/09642

; FILING DATE:

; CLASSIFICATION:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 08/120,606

; FILING DATE: 13-SEP-1993

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 08/116,882

; FILING DATE: 03-SEP-1993

; ATTORNEY/AGENT INFORMATION:

; NAME: Blasdale, John H. C.

; REGISTRATION NUMBER: 31,895

; REFERENCE/DOCKET NUMBER: DX0390K1

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 201-822-7398

; TELEFAX: 201-822-7039

; INFORMATION FOR SEQ ID NO: 1:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 1428 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 152..1123
PCT-US94-09642-1

Query Match 53.8%; Score 580.6; DB 5; Length 1428;
Best Local Similarity 75.9%; Pred. No. 2.3e-178;
Matches 802; Conservative 0; Mismatches 234; Indels 21; Gaps 6;

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QY 1 GTTCTGTGTTCTCTCGGAATGTCACGTGCTTATATACATCTGTCTCTG---GGAGCTGC 57
Db      |||||
QY 66 GCTTCTGTGTTCTCTCGGAATGTCGTGTATGCAATCTGTCTCTTTTGGAGCTAC 125
Db      |||||
QY 58 AFTGGATGGCAATTTGTGACAGCACTATGGGACTGAGTACACTCTCTCTGTGTGATGGCCC 117
Db      |||||
QY 126 AGTGGACAGCAATTTGTGACAGCACTATGGGACTGAGTAACATTTCTCTTTGTGATGGCCT 185
Db      |||||
QY 118 TCTGTCTCTGTGTTTCTTCCATGAAGTCAAGCATATTTCAACAAGACTGGAGAAC 177
Db      |||||
QY 186 TCTGTCTCTGTGTTCTCTCTGAAGATTCAAGCTTATTTCAATGAGACTGCAGACC 245
Db      |||||
QY 178 TGCATGCGCAATTTTCAAACTCTCAAAACATAAGCCTGGATGAGCTGGTAGTATTTTGGC 237
Db      |||||
QY 246 TGCATGCGCAATTTTCAAACTCTCAAAACATAAGCCTGGATGAGCTGGTAGTATTTTGGC 305
Db      |||||
QY 238 AGACCAAGGATAAGCTGGTCTGTATGAGATATTCAGAGGCAAAAGAACCCCTCAAAATG 297
Db      |||||
QY 306 AGGACCAAGGAAAATTTGGTTCTGAATGAGGTATCTTAGGCAAGAGAAATTTGACAGTG 365
Db      |||||
QY 298 TTTCAATCTCAATATAAGGCGGTACAGCTTTTCAAGGACAACTGGACCCCTGAGACTCC 357
Db      |||||
QY 366 TTTCAATCTCAATATAAGGCGGTACAGCTTTTCAAGGACAACTGGACCCCTGAGACTTC 425
Db      |||||
QY 358 ACAATGTTTCAATCAAGGACAAAGGCACATATCACTGTTTCAATTAATAAGGCCCCA 417
Db      |||||
QY 426 ACAATCTTCAGATCAGGACAAAGGCTGTATCAATGTATCATCATCAAAAGGCCCA 485
Db      |||||
QY 418 AAGGACTAGTTCCTCATGCAAAATGAGTTCTGACCTATCAGTGTCTTAACCTTCAGTC 477
Db      |||||
QY 486 CAGGAATGATTCGCATCCACAGATGAATTTCTGAACTGTTCAGTGTCTTAACCTTCAGTC 545
Db      |||||
QY 478 AACCTGAATAACAGTAACTTCTAATAGACAGAAATTTCTGCAATCAATAATTTGACCT 537
Db      |||||
QY 546 AACCTGAATAAGTAACTTCTAATAGACAGAAATTTCTGCAATCAATAATTTGACCT 602
Db      |||||
QY 538 GCTCATCTATACAAAGGTTACCCAGAACCTAAGGAGATGTATTTTCAAGTAAACACTGAGA 597
Db      |||||
QY 603 GCTCATCTATACAAAGGTTACCCAGAACCTAAGGAGATGTATTTTCAAGTAAACACTGAGA 662
Db      |||||
QY 598 ATTCAACTATTAAGTATGATCTGTGATGAAGAAATCTCAAAATATGTGACAGAACTGT 657
Db      |||||
QY 663 ATTCAACTATGAGTATGATGTATTTATGAGAAATCTCAAGTAAATGTGACAGAACTGT 722
Db      |||||
QY 658 ACAAGCTTTCTATCAGCTTGCCTTTTTCAGTCCCTGAG---CACAAATGTGAGGCTCT 714
Db      |||||
QY 723 ACAGAGTTTCCATCAGCTTGTCTGTTTTCATCTCCCTGATGTATGAGCAATATGACCATCT 782
Db      |||||
QY 715 TTTTGTGCGCTTGAACCTGGAGACACTGGAGATGCTGCTCTCCCTACCTTTCAATATAGATG 774
Db      |||||
QY 783 TCTGTATTCTGGAACCTGACA---AGACGGGCTTTTATCTTCACTCTCTCTATAG--- 836
Db      |||||
QY 775 CACAACTAAGGATAAAGCCCTGAACAAGGCCACTTCTCTGATTTGGGCTGTACTTGG 834
Db      |||||
QY 837 ---AGCTTGAGGACCCCTCAGCTTCCGCCAGCACATTTCTTGGATTACAGCTGTACTTC 893
Db      |||||
QY 835 TAATGTTTGTGTTTGTGGGATGCTGCTTTTAAACACTTAAGGAAAAGGAAGA 894
Db      |||||
QY 894 CAACAGTTATATATGTGATGCTTTTCTGTCTAATTTCTATGGAATGGAAGAGAAGA 953
Db      |||||
QY 895 AGCAGCGCTGGCCCTCTCATGAATGTGAACCAATCAAAAGGGAGAGAAAGAGCAAAAC 954
Db      |||||
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Db 954 AGCGGCTCGCAACTTTTATAAATGTGGAACCAACACAAATGGAGGGAAGAGGTGAAC 1013
QY 955 AGACCAACGAAGAAGATACCATACCGACTACCTGAGAGATCTGATGAAGCCCGAGTGTG--- 1011
Db      |||||
QY 1014 AGACCAAGAAAGAGAAAAAATCCATATACCTGAAAGATCTGATGAAGCCCGAGTGTGTT 1073
Db      |||||
QY 1012 TTAAACATTTTGAAGACAGCTCAGGGGACAAAAATCA 1048
Db      |||||
QY 1074 TTAAAGATTGGAAGACATCTTCATCGACAAAAAGTGA 1110
Db      |||||
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RESULT 5

US-09-949-016-5261
; Sequence 5261, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; PRIOR FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5261
; LENGTH: 1600
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-5261

Query Match 53.8%; Score 580.6; DB 4; Length 1600;
Best Local Similarity 75.9%; Pred. No. 2.5e-178;
Matches 802; Conservative 0; Mismatches 234; Indels 21; Gaps 6;

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QY 1 GTTCTGTGTTCTCTCGGAATGTCACGTGCTTATATACATCTGTCTCTG---GGAGCTGC 57
Db      |||||
QY 62 GCTTCTGTGTTCTCTCGGAATGTCGTGTATGCAATCTGTCTCTTTTGGAGCTAC 121
Db      |||||
QY 58 AFTGGATGGCAATTTGTGACAGCACTATGGGACTGAGTACACTCTCTCTGTGATGGCCC 117
Db      |||||
QY 122 AGTGGACAGGCAATTTGTGACAGCACTATGGGACTGAGTAACATTTCTTTGTGATGGCCT 181
Db      |||||
QY 118 TCTGTCTCTGTGTTTCTTCCATGAAGAGTCAAGCATATTTCAACAAGACTGGAGAAC 177
Db      |||||
QY 182 TCTGTCTCTGTGTTTCTTCCATGAAGATTTCAAGCTTATTTCAATGAGACTGCAGACC 241
Db      |||||
QY 178 TGCATGCGCAATTTTCAAACTCTCAAAACATAAGCCTGGATGAGCTGGTAGTATTTTGGC 237
Db      |||||
QY 242 TGCATGCGCAATTTTCAAACTCTCAAAACATAAGCCTGGATGAGCTGGTAGTATTTTGGC 301
Db      |||||
QY 238 AGGACCAAGATTAAGCTGTTCTGTATGAGATATTCAGAGGCAAAAGAGACCCCTCAAAATG 297
Db      |||||
QY 302 AGGACCAAGAAACTTGGTTCTGAAATGAGGTATCTTAGGCAAGAGAAATTTGACAGTG 361
Db      |||||
QY 298 TTTCAATCTCAATATAAGGCGGTGACAAGCTTTTGAACAAGGACAACTGGACCCCTGAGACTCC 357
Db      |||||
QY 362 TTTCAATCTCAAGTATATGGGCGGCAAGTTTGTATTCGACAGTTGGAACCTGAGACTTC 421
Db      |||||
QY 358 ACAATGTTTCAATCAAGGCAATATGAGGCAATATCACTGTTTCAATTAATAAGGCCCCA 417
Db      |||||
QY 422 ACAATCTTCAGATCAAGGCAAGGCTGTATCAATGTATCATCCATCAAAAAAGGCCCA 481
Db      |||||
QY 418 AAGGACTAGTTCCTCATGCAAAATGAGTTTCTGACCTATCAGTGTCTGTACTTCAGTTC 477
Db      |||||
QY 482 CAGGAATGATTCGCATCCACAGATGAATTTCTGAACTGTGAGTGTCTTAACCTTCAGTC 541
Db      |||||
QY 478 AACCTGAATAACAGTAACTTCTTAATAGAAACAGAAAAATTTCTGGCATCATAAATTTGACCT 537
Db      |||||
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Db	542	AACCTGAATAGTACCAATTTCTTAATATAACAGAAA---TGTGTACATAAATTTGACCT	598
Qy	538	GCTCATCTATACAAGGTTACCCAGAACCTTAAGGAGATGTATTTTCAGCTAAACA CTGAGA	597
Db	599	GCTCATCTATACACGGTTACCCAGAACCTTAAGAAGATGAGTGTGTTTGTCTAAGAACCAAGA	658
Qy	598	ATTCAACTACTAAGTATGATACTGTCTCATGAAGAAATCTCAAAATAATGTGNCAGAACTGT	657
Db	659	ATTCAACTATCGAGTATGATGGTATTATGCAGAAATCTCAAGATAATGTACAGAACTGT	718
Qy	658	ACAAGCTTTCTATCAGCTTGCGTTTTTCAGTCCCTGAAG---CACACAAATGTGAGCGTCT	714
Db	719	ACGAGCTTCCATCAGCTTGCTGTTTCATTCCTCTGATGTACGAGCAATATGACCATCT	778
Qy	715	TTTGTGCCCTGAAACTGGAGACACTGGAGATGCTGCTTCCTCACTTTCAATATAGATG	774
Db	779	TCTGTATTCTGGAAACTGACA---AGACGGCGGCTTTTATCTTCACCTTTCTCTATAG---	832
Qy	775	CACAACTCAAGGATAAAGACCCCTGAAACAAGGCCACTTCCTCTGATTGCGCTGTACTTG	834
Db	833	---AGCTTGAGGACCCCTCAGGCTCCCGACCAACATTCCTTGGATTACAGTGTACTTTC	889
Qy	835	TAATGTTGTGTTTTTGTGGGATGGTGTCTTTTAAAAACACTAAGGAAAGGAAGAAGA	894
Db	890	CAACAGTTATTATATGTGTATGTTTCTGCTCTAAATTCATGAAATGGAAGAAGAAGA	949
Qy	895	AGCAGCTGGCCCTCTCATGTAATGTGAACCATCAAAAGGGAGAGAAAAGAGAGCAAAC	954
Db	950	AGCGGCTCGCACTCTTATAAATGTGGAAACCAACACAATGGAGAGGGAAGAGAGTGAAC	1009
Qy	955	AGACCAACGAAAGAGTACCATACCACGTACTCGAGAGATCTGATGAAGCCAGGTG---	1011
Db	1010	AGACCAGAAAAGAAAAAATCCATATCTGAAAGATCTGATCAAGCCAGCGTGT	1069
Qy	1012	TTAACTTTGAAGACAGCGCTCAGGGGACAAAAATCA	1048
Db	1070	TTAAAGTTCGAAGACATCTTCATGCGCAAAAAGTGA	1106

RESULT 6

RESULI 6
US-08-205-697A-24
Sequence 24, Application US/08205697A
Patent No. 6218510
GENERAL INFORMATION:
APPLICANT: Sharpe, Arlene H.
APPLICANT: Borriello, Francescopaulo
APPLICANT: Freeman, Gordon J.
APPLICANT: Nadler, Lee M.
TITLE OF INVENTION: No. 6218510al Forms of T Cell Costimulatory Molecules
TITLE OF INVENTION: and Uses Therefor
NUMBER OF SEQUENCES: 61
CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD
STREET: 60 State Street, suite 510
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02109-1875
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: ASCII Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/205,697A
FILING DATE: 02-Mar-1994
ATTORNEY/AGENT INFORMATION:
NAME: Mandragouras, Amy E.
REGISTRATION NUMBER: 36,207
REFERENCE/DOCKET NUMBER: BWI-120
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400

QY 817 GGATTGGCGCTGACTTGTAATGTTTCTGTTTCTGTTTGGGATGGTGCTCCTTTAAACAC 876
DB |||||
QY 890 GGATTACAGCTGTACTTCCACAGTTATTAATATGTTGATGGTTTCTGTTCTAATCTAT 949
DB |||||
QY 877 TAAGGAAAGGAAGAAGACAGCGCTGGCCCTCTCATGAATGTGAACCATCAAAAGGG 936
DB |||||
QY 950 GGAATGGAAGAAGAAGACGGCTCGCAACTCTTATAAATGTGGAACCAACACAATGG 1009
DB |||||
QY 937 AGAGAAAGAGCAACACAGACCAACGAAGAAGTAGTACCATACCGAGTACCTGAGAGATCTG 996
DB |||||
QY 1010 AGAGGGAAGAGAGTGAACACAGCAAGAAAGAAAGAAAATCCATATACCTGAAAGATCTG 1069
DB |||||
QY 997 ATGAAGCCCACTGTG---TTAAACATTTTGAAGACAGCGCTCAGGGGACAAAATCA 1048
DB |||||
QY 1070 ATGAAGCCCACTGTGTTTAAAAGTTCGAAGACAATCTTCATCGGACAAAAGTGA 1124
DB |||||

RESULT 7

US-08-702-525-24
; Sequence 24, Application US/08702525
; Patent No. 6294660
; GENERAL INFORMATION:
; APPLICANT: Sharpe, Sharpe
; APPLICANT: Borriello, Francescopaolo
; APPLICANT: Freeman, Gordon
; APPLICANT: Nadler, Lee
; TITLE OF INVENTION: No. 6294660el Forms of T Cell Costimulatory
; TITLE OF INVENTION: Molecules and Uses Therefor
; NUMBER OF SEQUENCES: 65
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 28 State Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/702,525
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/205,697
; FILING DATE: 02-Mar-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Mandragouras, Amy E.
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: SWI-120CPUS
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 24:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1161 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 148..1134
US-08-702-525-24

Query Match 51.2%; Score 552.6; DB 3; Length 1161;
Best Local Similarity 74.6%; Pred. No. 2.7e-169;
Matches 802; Conservative 0; Mismatches 234; Indels 39; Gaps 7;
QY 1 GTTCTGTGTTCTCGGGAATGTCACTGAGCTTATACATCTGGTCTCTG---GGAGCTGC 57
DB |||||
QY 62 GCTTCTGTGTTCTCTGGGAATGCTGCTGTGCTTATGCAATCTGTTCTTTTGGAGCTAC 121
DB |||||

RESULT 8

US-09-837-867A-24
; Sequence 24, Application US/09837867A

QY 58 AGTGGATGGCATTTTGTGACA-----GCACTATGGGACTGAGTCACA 99
DB |||||
QY 122 AGTGGACAGGCATTTTGTGACAGACACTATGGATCCCCAGTGCACATATGGGACTGAGTAACA 181
DB |||||
QY 100 CTCTCCTCTGTGATGGGCCCTCTGCTCTCTGCTGTTTCTTCCATGAAGAGTCAAGCATATT 159
DB |||||
QY 182 TTCTCTTTGTGATGGCTTCTGCTCTCTGCTGCTCTCTCTGGAAGATCAAGCTTATT 241
DB |||||
QY 160 TCAACAAGACTGAGAACTGCGCATGCAATTTTCAAACTCTCAAACTCTCAAACTCTCAAGCTGATG 219
DB |||||
QY 242 TCAATGAGACTGAGACCTGCGCATGCAATTTTCAAACTCTCAAACTCTCAAACTCTGAGTG 301
DB |||||
QY 220 AGCTGTGATGTTTGTGGCAGGACAGGATAAGCTGTTCTGTATGATGATTTTCAAGGCA 279
DB |||||
QY 302 AGCTAGTAGTATTTTGGCAGGACCAAGAAACTTTGGTCTTGAATGAGGTATATCTTAGGCA 361
DB |||||
QY 280 AAGAGAACCTCTCAAAATGTTTCATCTCAAAATATAAGGGCCGTACAAGCTTTTGACAAAGGACA 339
DB |||||
QY 362 AAGAGAAATTTGACAGTGTTCATCCAGTATATGGCCGACACAAGTTTGTGATTCGACA 421
DB |||||
QY 340 ACTGACCTGTGAGCTCCACAATGTTTCAAGTCAAGGACCAAGGCAATATCATCTGTTTCA 399
DB |||||
QY 422 GTTGGACCTGTGAGCTTCAATCTTCAAGTCAAGGACCAAGGCTTGTATCAATGTATCA 481
DB |||||
QY 400 TTCAATTAAGGGCCCAAGGACTAGTTCCCATGCAACCAATGAGTCTCTGACCTATCAG 459
DB |||||
QY 482 TCCATCACAAAAGCCCAAGGAATGATTCGCATCCACAGATGAATCTTGAACATGTGAG 541
DB |||||
QY 460 TGCTTCTAACTTCAGTCAACCTGAAATAACAGTAACTTCTAATAGAACAGAAAATCTG 519
DB |||||
QY 542 TGCTTCTAACTTCAGTCAACCTGAAATAACAGTAACTTCTAATATAACAGAAA---TG 598
DB |||||
QY 520 GCATCAATAATTTGACCTGCTCATCTATACAAGTTTACCAGAACCTTAAGGAGATGATTT 579
DB |||||
QY 599 TGTACATAAATTTGACCTGCTCATCTATACAGGTTTACCAGAACCTTAAGGAGATGAGTG 658
DB |||||
QY 580 TTCAGCTTAAACACTGGAATTCAACTACTTAAGTATGATACTGTCATGAAGAAATCTCAA 639
DB |||||
QY 659 TTTTGTCTAAGAACCAAGAATTCAACTATCGAGTATGATGTTATATGCAAAATCTCAAG 718
DB |||||
QY 640 ATAATGTGACAGAACTGTACACGTTTCTATCAGCTTGCTCTTTTTCAGTCCCTGGAAG--- 696
DB |||||
QY 719 ATAACTCACAGAACTGTACGAGTTTCCATCAGCTTGTCTGTTTTCATTTCCCTGATGTTA 778
DB |||||
QY 697 CACACAATGTGAGCGTCTTTTGTGCGCTGAAACTGGAGACACTGGAGATGCTGCTCTCCC 756
DB |||||
QY 779 CGAGCAATATGACCATCTTCTGTATTCTGAAAACCTGACA---AGACGCGGCTTTTATCTT 835
DB |||||
QY 757 TACCTTTTCAATATAGATGCACACCTAAGGATAAAGACCCCTGAACAGGCGCACTTCTCT 816
DB |||||
QY 836 CACCTTTTCTATAG-----AGCTTGGAGACCCCTCAGCGCTCCCCAGACCAATTCCTT 889
DB |||||
QY 817 GGATTGCGGCTGTACTTGTAAATGTTTGTGTTTGTGGGATGGTGTCTCTTTAAACAC 876
DB |||||
QY 890 GGATTACAGCTGTACTTCCACAGTTATTAATGTTGATGGTTTCTGCTTAATCTAT 949
DB |||||
QY 877 TAAGGAAAGGAAGAAGACAGCGCTGGCCCTCTCATGAATGTGAACCATCAAAAGGG 936
DB |||||
QY 950 GGAATGGAAGAAGAAGACGGCTCGCAACTCTTTATAAATGTGGAACCAACACAATGG 1009
DB |||||
QY 937 AGGAAAGAGAGCAACACAGACCAACGAAGAGTACCATACCGAGTACCTGAGAGATCTG 996
DB |||||
QY 1010 AGAGGGAAGAGAGTGAACAGACCAAGAAAGAAAGAAAATCCATATACCTGAAAGATCTG 1069
DB |||||
QY 997 ATGAAGCCCACTGTG---TTAAACATTTTGAAGACAGCGCTCAGGGGACAAAATCA 1048
DB |||||
QY 1070 ATGAAGCCCACTGTGTTTAAAAGTTCGAAGACAATCTTCATCGGACAAAAGTGA 1124
DB |||||


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; Patent No. 6608180
; GENERAL INFORMATION:
; APPLICANT: Sharpe, Arlene H.
; APPLICANT: Borriello, Francescopaulo
; APPLICANT: Freeman, Gordon J.
; APPLICANT: Nadler, Lee M.
; TITLE OF INVENTION: No. 6608180el Forms of T Cell Costimulatory
; TITLE OF INVENTION: Molecules and Uses Therefor
; FILE REFERENCE: BWI-120CPADV
; CURRENT APPLICATION NUMBER: US/09/837,867A
; CURRENT FILING DATE: 2001-04-17
; PRIOR APPLICATION NUMBER: 08/205,697
; PRIOR FILING DATE: 1994-03-02
; NUMBER OF SEQ ID NOS: 42
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 24
; LENGTH: 1161
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (148)...(1134)
US-09-837-867A-24

Query Match 51.2%; Score 552.6; DB 4; Length 1161;
Best Local Similarity 74.6%; Pred. No. 2.7e-169;
Matches 802; Conservative 0; Mismatches 234; Indels 39; Gaps 7;

QY 1 GTTCTGTGTTCTCGGGAATGTCAGTACATCTGCTCTGCTG---GGAGCTGC 57
DB 62 GCTTCTGTGTTCTCGGGAATGTCAGTACATCTGCTCTGCTGTTTGGAGCTAC 121
QY 58 AGTGAATGGGCAATTTGTGACA-----GCATATGGGACTGAGTCACA 99
DB 122 AGTGAACAGCAATTTGTGACAGCACTATGATCCCGAGTGCATATGGGACTGAGTACA 181
QY 100 CTCCTCTGTGATGGCCCTCTGCTCTCTGGTGTGTTTCTCCATGAAGATCAAGCATAT 159
DB 182 TTCTCTTTGTGATGGCCCTCTGCTCTCTGGTGTGCTCTCTGAAGATTCAGCTTAT 241
QY 160 TCAACAGACTGGAGAACCTGCCATGCTTTTACAACTCTCAAACTAAGCCTGGATG 219
DB 242 TCAATGAGACTGAGAACCTGCCATGCTTTTACAACTCTCAAACTAAGCCTGGATG 301
QY 220 AGCTGTAGTATTTTGGCAGGACCCAGGATAAGCTGTTCTGTATGAGATATTCAGAGGCA 279
DB 302 AGCTGTAGTATTTTGGCAGGACCCAGGATAAGCTGTTCTGTATGAGATATTCAGAGGCA 361
QY 280 AAGAGAACCTCAAAATGTTCACTCTCAAAATATAAGGGCCGTACAAGCTTTGAAGGACA 339
DB 362 AAGAGAAATTTGACAGTGTTCATTCCAAGTATATGCGCGGCAAGTTTGTATCGGACA 421
QY 340 ACTGGACCTGAGACTCCCAATGTTTCAGATCAGGACAGGACATATCATCTGTTTCA 399
DB 422 GTTGGACCTGAGACTCCCAATGTTTCAGATCAGGACAGGACATATCATCTGTTTCA 481
QY 400 TTCAATATATAAGGGCCCAAGGACTAGTTCCCATGACCAAAATGAGTTCTGACCTATCAG 459
DB 482 TCAATCAGAAAGGCCAGGAAATGTTCCATGATCCAGAGATGATTTCTGAACTGTCAG 541
QY 460 TGTCTGCTAACTTCACTCAACCTGAAATACAGTAACTTCTAATAGAACAGAAAAATCTG 519
DB 542 TGTCTGCTAACTTCACTCAACCTGAAATAGTACCAATTTCTAATATAACAGAAA---TG 598
QY 520 GCATCAATAATTTGACCTGCTCATCTATACAGGTTTACCAGAACCTTAAGGAGATGATT 579
DB 599 TGTACATAAATTTGACCTGCTCATCTATACAGGTTTACCAGAACCTTAAGGAGATGATT 658
QY 580 TTCAGCTAACACTGAGAAATCAACTACTAAGTATGATCTGTCATGAAGAAATCTCAAA 639
DB 659 TTTTGTGAAGAACCAAGAAATCAACTACTAAGTATGATGATGATGATGATGATGATGAT 718
QY 640 ATAATGTGACAGAACTGTACAGGTTTCTATCAGCTTGTGCTTTTTCAGTCCCTGAAG--- 696

; RESULT 9
; PCT-US95-02576-24
; Sequence 24, Application PC/TUS9502576
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: Novel Forms of T Cell Costimulatory Molecules
; TITLE OF INVENTION: and Uses Therefor
; NUMBER OF SEQUENCES: 65
; CORRESPONDENCE ADDRESS:
; ADDRESS: LAHIVE & COCKFIELD
; STREET: 60 State Street, suite 510
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/02576
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/205,697
; FILING DATE: 02-Mar-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Mandragouras, Amy E.
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: BWI-120CPPC
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 24:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1161 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cdna
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 148..1134
; PCT-US95-02576-24
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Db 677 ---AGACGGGCTTTTATCTTACCTTTCTCTATAG-----AGCTTGAGGCCCTCAGC 727
QY 796 CTGAACAAGCCACTTCCCTCTGATTTGGGCTGTACTTGTAAATGTTGTTGTTTGTG 855
Db 728 CTCCTCCAGACACATCTCTTGGATTACAGCTGTACTTCCAAACAGTTATTATATGTTGA 787
QY 856 GGATGCTGTCTTTTAAACACATTAAGGAAGGAAGGAAGCAGCCTGGCCCTCTCATG 915
Db 788 TGGTTTCTGTCTTAATCTTATGGAATGGAAGGAAGGCGGCTCGCAACTCTTATA 847
QY 916 AATGTGAACCACTCAAAAGGAGAGAAAGAGACAAACAGACCAGAAAGAGTACCAT 975
Db 848 AATGTGAACCAACACATAGGAGGAGAGAGTGAACAGACCAGAAAGAGAAAAA 907
QY 976 ACCAGTACTGAGAGATCTGATGAAGCCAGTGTG---TTAACTTTTGAAGACAGCT 1032
Db 908 TCCATATAGCTGAAGATCTGATGAAGCCAGCGTGTGTTTAAAGTTTCGAAGACATCTT 967
QY 1033 CAGGGGACAAAAATCA 1048
Db 968 CATGCGACAAAAGTGA 983

RESULT 12

US-09-039-762A-33
; Sequence 33, Application US/09039762A
; Patent No. 6255073
; GENERAL INFORMATION:
; APPLICANT: Cai, Zeling
; APPLICANT: Sprent, Jonathan
; APPLICANT: Brunmark, Anders
; APPLICANT: Jackson, Michael
; APPLICANT: Peterson, Per A.
; TITLE OF INVENTION: ANTIGEN PRESENTING SYSTEM AND METHODS
; TITLE OF INVENTION: FOR ACTIVATION OF T-CELLS
; NUMBER OF SEQUENCES: 59
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Olsson & Hierrl, Ltd.
; STREET: 20 No. 6255073th Wacker Drive, 36th Floor
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/039,762A
; FILING DATE: 16-MAR-1998
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: OLSON, Arne M.
; REGISTRATION NUMBER: 30,203
; REFERENCE/DOCKET NUMBER: TSRI 471.0 DIV.2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (312) 580-1180
; TELEFAX: (312) 580-1189
; INFORMATION FOR SEQ ID NO: 33:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1002 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
US-09-039-762A-33

Query Match 49.4%; Score 533.2; DB 3; Length 1002;
Best Local Similarity 75.3%; Pred. No. 5.3e-163;

Matches 735; Conservative 0; Mismatches 223; Indels 18; Gaps 5;
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Db 80 CTCCTGAAGATTCAAGCTTATTTCAATGAGACTGACAGCTGCCATGCCATTTGCAACT 139
QY 199 CTCAAAACATTAAGCCTGGATGAGCTGGTAGTATTTTGGCAGGACCAGGATAGCTGTTT 258
Db 140 CTCAAAAACCAAGCCCTGAGTGAGCTAGTAGTATTTTGGCAGGACCAGGAAAACTTGGTTC 199
QY 259 TGTATGAGATATTAGAGGCAAGAGAACCTCAAAATGTTTCATCTCAATATAAGGGCC 318
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Db 320 AGGGCTTGTATCAATGTATCATTCATCAAAAAAGCCACAGGAATGATTCGCATCCACC 379
QY 439 AAATGAGTTTCAGCCTATCAGTGTCTGCTTAACCTTCAGTCAACCTGAAATTAACAGTAATT 498
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QY 1033 CAGGGGACAAAAATCA 1048
Db 968 CATGCGACAAAAGTGA 983

RESULT 13
US-09-042-492D-33

Sequence 33, Application US/09042492D
Patent No. 6362001
GENERAL INFORMATION:
APPLICANT: Cai, Zeling
 Brunmark, Anders
 Jackson, Michael
 Peterson, Per A.
TITLE OF INVENTION: ANTIGEN PRESENTING SYSTEM AND METHODS
 FOR ACTIVATION OF T-CELLS
NUMBER OF SEQUENCES: 59
CORRESPONDENCE ADDRESS:
ADDRESSEE: Olson & Hierl, Ltd.
STREET: 20 No. 6362001th Wacker Drive, 36th Floor
CITY: Chicago
STATE: Illinois
COUNTRY: USA
ZIP: 60606
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/042,492D
FILING DATE: 16-Mar-1998
CLASSIFICATION: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Cepuritis, Talivaldis
REGISTRATION NUMBER: 20,818
REFERENCE/DOCKET NUMBER: 471.0 DIV.3
TELECOMMUNICATION INFORMATION:
TELEPHONE: (312) 580-1180
TELEFAX: (312) 580-1189
INFORMATION FOR SEQ ID NO: 33:
SEQUENCE CHARACTERISTICS:
LENGTH: 1002 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
SEQUENCE DESCRIPTION: SEQ ID NO: 33:
US-09-042-492D-33

Query Match 49.4%; Score 533.2; DB 3; Length 1002;
Best Local Similarity 75.3%; Pred. No. 5.3e-163;
Matches 735; Conservative 0; Mismatches 223; Indels 18; Gaps 5;

QY 79 GCATATGGGACTGAGTCACACTCTCTGTGTATGGCCCTCCCTGCTCTCTGGTGTCTT 138
DB 20 GCATATGGGACTGAGTAACATCTCTTGTGTATGGCCCTCCCTGCTCTCTGGTGTCTT 79
QY 139 CCATGAAGAGTCAAGCATATTTCAACAAGACTGGAGAAGTCCCATGCCATTTTACAAACT 198
DB 80 CTCTGAAGATTCAAGCTTATTTCAATGAGACTGCAGACTGCCATGCCAATTTGCAACT 139
QY 199 CTCAAAACATAAGCCCTGGATGAGCTGGTAGTATTTGGCAGGACGAGGATAGCTGGTTC 258
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QY 259 TGTATGAGATATTCAGAGCAAGAGAACCTCAAAATGTTCAATCTCAAAATTAAGGCC 318
DB 200 TGAATGAGGTATCTTAGGCAAGAGAAATTTGACAGTGTTCATCTCAAGTATATGGGCC 259
QY 319 GTACAAAGCTTTGACAAAGCAACTGGACCTGAGACTCCACATGTTTCAGATCAAGGACA 378
DB 260 GCACAAAGTTTGTATCGGACAGTTGGACCTGAGACTTCACATCTTCAGATCAAGGACA 319
QY 379 AGGGCAATATCACTGTTTCATTTATTAAGGGCCCAAGGACTAGTTCATGACACC 438
DB 320 AGGGCTGTATCAATGTATCATCATCAACAAAAGCCACAGGAATGATTCGATCCACC 379

QY 439 AAATGAGTTTCTGACCTATCAGTCTTGTCTTAACCTTCACTCAACCTGAAATAACAGTAACCTT 498
DB 380 AGATGAATTTCTGAACCTGTGAGTCTTGTCTTAACCTTCACTCAACCTGAAATAGTACCAATTT 439
QY 499 CTAATAGAACAGAAATTTCTGCAATCAATAAATTTGACCTGCTCTATCATACAGGTTTACC 558
DB 440 CTAATATAACAGAAA---TGTGTACATAAATTTGACCTGCTCTATCATACAGGTTTACC 496
QY 559 CAGAACCTAAGGAGATGATTTTTCAGCTAAACACACTGAGAAATTCACACTACTTAAGATATGATA 618
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QY 619 CTGTCAATGAAGAAATCTCAAAATAATGTGACAGAACTGTACAACTGTTTCTATCAGCTTGC 678
DB 557 GTATTATGCAAGAAATCTCAAGATAATGTACAGAACTGTACGACGTTTCCATCAGCTTGT 616
QY 679 CTTTTCAGTCCCTGAG---CACACAATGTGAGGCTCTTTTGTGCGCTGAAACTGAGAGA 735
DB 617 CTGTTTCATTCCTGATGTTTACGAGCAATATGACCATCTTCTGTATTTCTGGAACCTGACA 676
QY 736 CACTGGAGATGCTGCTCTCCCTACCTTTCAAATATAGATGCACAACTTAAGGATAAAGACC 795
DB 677 ---AGACGGGCTTTTATCTTACCTTCTCTATAG-----AGCTTGAGGACCCCTCAGC 727
QY 796 CTGAACAAGGCCACTTCTCTGATTTGCGGCTGTACTTGTAAATGTTTGTGTTTGTG 855
DB 728 CTCCCCAGACACCATTCCTTGGATTACAGCTGTACTTCCACAGTTATATATGTTGA 787
QY 856 GGATGTTGCTTTTAAACACTAAAGAAAGGAAGAAAGAGAGAGCTGCGCCCTCTCATG 915
DB 788 TGGTTTTCTGTCTAAATTTATGGAATGGAAGAAAGAGGCGGCTCGCAACTCTTATA 847
QY 916 AATGTGAACCATCAAAAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 975
DB 848 AATGTGAACCATCAAAAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 907
QY 976 ACCAGTACTGAGAGATCTGATGAAGCCAGCTGTG---TTAACAATTTTGAAGACAGCCT 1032
DB 908 TCCATATACCTGAAGATCTGATGAAGCCAGCTGTGTTTAAAGTTTGAAGACATCTT 967
QY 1033 CAGGGGACAAAATCA 1048
DB 968 CATGCGACAAAAGTGA 983

RESULT 14
US-08-913-612A-33
Sequence 33, Application US/08913612A
Patent No. 6461867
GENERAL INFORMATION:
APPLICANT: Cai, Zeling
APPLICANT: Sprent, Jonathan
APPLICANT: Brunmark, Anders
APPLICANT: Jackson, Michael
APPLICANT: Peterson, Per A.
TITLE OF INVENTION: ANTIGEN PRESENTING SYSTEM AND METHODS FOR
ACTIVATION OF T-CELLS
NUMBER OF SEQUENCES: 65
CORRESPONDENCE ADDRESS:
ADDRESSEE: Olson & Hierl, Ltd.
STREET: 20 No. 6461867th Wacker Drive, 36th Floor
CITY: Chicago
STATE: Illinois
COUNTRY: USA
ZIP: 60606
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/913,612A

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; FILING DATE: 08-SEP-1997
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: Cepuritis, Talivaldis
; REGISTRATION NUMBER: 20,818
; REFERENCE/DOCKET NUMBER: 471.1 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (312) 580-1180
; TELEFAX: (312) 580-1189
; INFORMATION FOR SEQ ID NO: 33:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1002 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; US-08-913-612A-33

Query Match          49.4%; Score 533.2; DB 3; Length 1002;
Best Local Similarity 75.3%; Pred. No. 5.3e-163;
Matches 735; Conservative 0; Mismatches 223; Indels 18; Gaps 5;

QY 79 GCACATATGGAGCTGAGTACACCTCTCTTGTGATGGCCCTCTGCTCTCTGCTGTTCTT 138
DB 20 GCACATATGGAGCTGAGTACATCTCTTGTGATGGCCCTCTGCTCTCTGCTGTTCTT 79
QY 139 CCATGAAGAGTCAAGCATATTTCAACAAGACTGGAGAACTGCCATGCCATTTTACAAACT 198
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DB 908 TCCATATACCTGAAGATCTGATGAAGCCCACTGTGTTTAAAGTTTGAAGACATCTT 967
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RESULT 15
US-10-266-463A-33
; Sequence 33, Application US/10266463A
; Patent No. 6828150
; GENERAL INFORMATION:
; APPLICANT: CAI, Zeling
; APPLICANT: SPRENT, Jonathan
; APPLICANT: BRUNMARK, Anders
; APPLICANT: JACKSON, Michael
; APPLICANT: PETERSON, Per A.
; APPLICANT: LUXEMBOURG, Alain
; APPLICANT: LETURCO, Didier Jean
; APPLICANT: MORIARTY, Ann M.
; TITLE OF INVENTION: ANTIGEN PRESENTING SYSTEM AND METHODS
; TITLE OF INVENTION: FOR ACTIVATION OF T-CELLS
; FILE REFERENCE: TSRI 471.1 Div. 1
; CURRENT APPLICATION NUMBER: US/10/266,463A
; CURRENT FILING DATE: 2002-10-08
; PRIOR APPLICATION NUMBER: US 08/913,612
; PRIOR FILING DATE: 1997-09-08
; PRIOR APPLICATION NUMBER: PCT/US96/03249
; PRIOR FILING DATE: 1996-03-08
; PRIOR APPLICATION NUMBER: US 08/400,338
; PRIOR FILING DATE: 1995-03-08
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 33
; LENGTH: 1002
; TYPE: DNA
; ORGANISM: Homo Sapiens
; US-10-266-463A-33

Query Match          49.4%; Score 533.2; DB 4; Length 1002;
Best Local Similarity 75.3%; Pred. No. 5.3e-163;
Matches 735; Conservative 0; Mismatches 223; Indels 18; Gaps 5;

QY 79 GCACATATGGAGCTGAGTACACCTCTCTTGTGATGGCCCTCTGCTCTCTGCTGTTCTT 138
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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7	772.8	71.6	987	19	US-10-790-396-9

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	9	772.8	71.6	1897	19	US-10-790-396-6	Sequence 6, Appl
C	10	772.8	71.6	1897	19	US-10-790-396-8	Sequence 8, Appl
	11	582.2	53.9	840	19	US-10-790-396-19	Sequence 19, Appl
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	13	582.2	53.9	1795	19	US-10-790-396-16	Sequence 16, Appl
C	14	582.2	53.9	1795	19	US-10-790-396-18	Sequence 18, Appl
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	20	580.6	53.8	1424	17	US-10-444-206-295	Sequence 295, App
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	23	580.6	53.8	1424	21	US-10-641-962-295	Sequence 295, App
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	26	580.6	53.8	1424	21	US-10-843-641A-3015	Sequence 3015, Ap
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	29	580.6	53.8	1600	13	US-10-087-192-1079	Sequence 24, Appl
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	42	533.2	49.4	1120	9	US-09-425-762-1	Sequence 1, Appl
	43	533.2	49.4	1120	9	US-09-837-867A-22	Sequence 22, Appl
	44	533.2	49.4	1120	10	US-09-962-969-22	Sequence 3, Appl
	45	533.2	49.4	1120	10	US-09-350-202-3	

ALIGNMENTS

RESULT 1

US-09-303-510-5
; Sequence 5, Application US/09303510A
; Patent No. US2002028208A1
; GENERAL INFORMATION:
; APPLICANT: Collis, Ellen W.
; APPLICANT: Hash, Stephen M.
; APPLICANT: Choi, InSoo
; TITLE OF INVENTION: Feline CD80, Feline CD86, Feline CD28, and Feline
; TITLE OF INVENTION: CTLA-4 Nucleic Acid and Polypeptides
; FILE REFERENCE: 54954
; CURRENT APPLICATION NUMBER: US/09/303,510A
; CURRENT FILING DATE: 1999-04-30
; EARLIER APPLICATION NUMBER: 60/083,869
; EARLIER FILING DATE: 1998-05-01
; NUMBER OF SEQ ID NOS: 83
; SOFTWARE: Patent in Ver. 2.1
; SEQ ID NO 5
; LENGTH: 1080
; TYPE: DNA
; ORGANISM: Feline
US-09-303-510-5

Query Match 100.0%; Score 1080; DB 9; Length 1080;
Best Local Similarity 100.0%; Pred. No. 1.6e-308;
Matches 1080; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GTTCTGTGTTCTCTCGGAATCTCATGAGCTTATACATCTGTCTCTGGAGCTCAGT 60
DB 1 GTTCTGTGTTCTCTCGGAATCTCATGAGCTTATACATCTGTCTCTGGAGCTCAGT 60

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QY 61 GGATGGGCAATTTGTGACAGCACTATGGGACTGAGTCACACTCTCTCTGTGATGGCCCTCC 120
Db 61 GGATGGGCAATTTGTGACAGCACTATGGGACTGAGTCACACTCTCTCTGTGATGGCCCTCC 120
QY 121 TGCTCTCTGGTGTCTTCCATGAAGAGTCAAGCATATTTCAACAAGACTGGAGAACTGC 180
Db 121 TGCTCTCTGGTGTCTTCCATGAAGAGTCAAGCATATTTCAACAAGACTGGAGAACTGC 180
QY 181 CATGCCATTTTCAAACTCTCAAAACATAAGCTGGATGAGCTGGTAGTATTTTGGCAGG 240
Db 181 CATGCCATTTTCAAACTCTCAAAACATAAGCTGGATGAGCTGGTAGTATTTTGGCAGG 240
QY 241 ACCAGGATAAGCTGGTGTCTGTATGAGATATTCAGAGGCAAGAGAACCTTCAAAATGTTTC 300
Db 241 ACCAGGATAAGCTGGTGTCTGTATGAGATATTCAGAGGCAAGAGAACCTTCAAAATGTTTC 300
QY 301 ATCTCAAAATATAAGGCGCGTCAAGCTTTTGACAAGGACAACTGGACCTTGAGACTCCACA 360
Db 301 ATCTCAAAATATAAGGCGCGTCAAGCTTTTGACAAGGACAACTGGACCTTGAGACTCCACA 360
QY 361 ATGTTTCAGATCAAGGACCAAGGCAATATCATCTGTTTTCATTTATAAAGGCGCCAAAG 420
Db 361 ATGTTTCAGATCAAGGACCAAGGCAATATCATCTGTTTTCATTTATAAAGGCGCCAAAG 420
QY 421 GACTAGTTCCTCATGACCAAAATGAGTTCGACCTATCAGTGTCTGCTAACTTTCAGTCAAC 480
Db 421 GACTAGTTCCTCATGACCAAAATGAGTTCGACCTATCAGTGTCTGCTAACTTTCAGTCAAC 480
QY 481 CTGAATAACAGTAACTTCTAATAGAACAGAAAAATTCCTGGCATCATATAATTTGACCTGCT 540
Db 481 CTGAATAACAGTAACTTCTAATAGAACAGAAAAATTCCTGGCATCATATAATTTGACCTGCT 540
QY 541 CATCTATACAAGTTTACCAAGACCTTAAGGAGATGATTTTTCAGCTTAACACTGAGAAAT 600
Db 541 CATCTATACAAGTTTACCAAGACCTTAAGGAGATGATTTTTCAGCTTAACACTGAGAAAT 600
QY 601 CAACTACTAAGTATGATCTGTCTGAAGAAATCTCAAAATATATGTGACAGAACTGTACA 660
Db 601 CAACTACTAAGTATGATCTGTCTGAAGAAATCTCAAAATATATGTGACAGAACTGTACA 660
QY 661 ACGTTTCTATCAGCTTGCCCTTTTTCAGTCCCTGAAAGCACAAATGTGAGCGCTTTTGTG 720
Db 661 ACGTTTCTATCAGCTTGCCCTTTTTCAGTCCCTGAAAGCACAAATGTGAGCGCTTTTGTG 720
QY 721 CCTTGAACTGAGACACTGGAGATGCTGCTCTCCCTACCTTTCATATAGATGACACAC 780
Db 721 CCTTGAACTGAGACACTGGAGATGCTGCTCTCCCTACCTTTCATATAGATGACACAC 780
QY 781 CTAAGGATAAAGACCTGAAACAGGCGCACTTCTCTGGATTGCGGCTGTACTTGTAAATGT 840
Db 781 CTAAGGATAAAGACCTGAAACAGGCGCACTTCTCTGGATTGCGGCTGTACTTGTAAATGT 840
QY 841 TTGTTGTTTTTTTGTGGATGGTGTCTCTTTTAAACACTAAGGAAAAGGAGAAAGAGGAGG 900
Db 841 TTGTTGTTTTTTTGTGGATGGTGTCTCTTTTAAACACTAAGGAAAAGGAGAAAGAGGAGG 900
QY 901 CTGGCCCTCTCATGATGTGAAACCATCAAAAGGAGAGAAAAGAGAGCAACAGACCA 960
Db 901 CTGGCCCTCTCATGATGTGAAACCATCAAAAGGAGAGAAAAGAGAGCAACAGACCA 960
QY 961 ACGAAGAGTACCATACACAGTACCTGAGAGATCTGATCAAGCCAGTGTGTAACTTT 1020
Db 961 ACGAAGAGTACCATACACAGTACCTGAGAGATCTGATCAAGCCAGTGTGTAACTTT 1020
QY 1021 TGAAGACAGCCTCAGGGGACAAAAATCAGTAGGAAAAATGGTGGCTTTGGCGTGTGACAAAT 1080
Db 1021 TGAAGACAGCCTCAGGGGACAAAAATCAGTAGGAAAAATGGTGGCTTTGGCGTGTGACAAAT 1080
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; Patent No. US20020051792A1
; GENERAL INFORMATION:
; APPLICANT: Winslow, Barbara J.
; APPLICANT: Cochran, Mark D.
; TITLE OF INVENTION: Recombinant Virus Expressing Foreign DNA Encoding
; TITLE OF INVENTION: Feline CD80, Feline CD86, Feline CD28, Feline CTLA-4 or
; TITLE OF INVENTION: Feline Interferon-gamma And Uses Thereof
; FILE REFERENCE: 54957-B
; CURRENT APPLICATION NUMBER: US/09/303,040
; CURRENT FILING DATE: 1999-04-30
; EARLIER APPLICATION NUMBER: 60/083,870
; EARLIER FILING DATE: 1998-05-01
; NUMBER OF SEQ ID NOS: 82
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 1080
; TYPE: DNA
; ORGANISM: feline CD86
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (63)..(1052)
; US-09-303-040-5
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Query Match 100.0%; Score 1080; DB 9; Length 1080;
Best Local Similarity 100.0%; Pred. No. 1.6e-308;
Matches 1080; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTTCTGTGTTCTCTCGGAATGTCTAGCTTATACATCTGCTCTCTGGGAGTGCAGT 60
Db 1 GTTCTGTGTTCTCTCGGAATGTCTAGCTTATACATCTGCTCTCTGGGAGTGCAGT 60
QY 61 GGATGGGCAATTTGTGACAGCACTATGGGACTGAGTCACACTCTCTGTGATGGCCCTCC 120
Db 61 GGATGGGCAATTTGTGACAGCACTATGGGACTGAGTCACACTCTCTGTGATGGCCCTCC 120
QY 121 TGCTCTCTGGTGTCTTCCATGAAGAGTCAAGCATATTTCAACAAGACTGGAGAACTGC 180
Db 121 TGCTCTCTGGTGTCTTCCATGAAGAGTCAAGCATATTTCAACAAGACTGGAGAACTGC 180
QY 181 CATGCCATTTTCAAACTCTCAAAACATAAGCTGGATGAGCTGGTAGTATTTTGGCAGG 240
Db 181 CATGCCATTTTCAAACTCTCAAAACATAAGCTGGATGAGCTGGTAGTATTTTGGCAGG 240
QY 241 ACCAGGATAAGCTGGTGTCTGTATGAGATATTCAGAGGCAAGAGAACCTTCAAAATGTTTC 300
Db 241 ACCAGGATAAGCTGGTGTCTGTATGAGATATTCAGAGGCAAGAGAACCTTCAAAATGTTTC 300
QY 301 ATCTCAAAATATAAGGCGCGTCAAGCTTTTGACAAGGACAACTGGACCTTGAGACTCCACA 360
Db 301 ATCTCAAAATATAAGGCGCGTCAAGCTTTTGACAAGGACAACTGGACCTTGAGACTCCACA 360
QY 361 ATGTTTCAGATCAAGGACCAAGGCAATATCATCTGTTTTCATTTATAAAGGCGCCAAAG 420
Db 361 ATGTTTCAGATCAAGGACCAAGGCAATATCATCTGTTTTCATTTATAAAGGCGCCAAAG 420
QY 421 GACTAGTTCCTCATGACCAAAATGAGTTCGACCTATCAGTGTCTGCTAACTTTCAGTCAAC 480
Db 421 GACTAGTTCCTCATGACCAAAATGAGTTCGACCTATCAGTGTCTGCTAACTTTCAGTCAAC 480
QY 481 CTGAATAACAGTAACTTCTAATAGAACAGAAAAATTCCTGGCATCATATAATTTGACCTGCT 540
Db 481 CTGAATAACAGTAACTTCTAATAGAACAGAAAAATTCCTGGCATCATATAATTTGACCTGCT 540
QY 541 CATCTATACAAGTTTACCAAGACCTTAAGGAGATGATTTTTCAGCTTAACACTGAGAAAT 600
Db 541 CATCTATACAAGTTTACCAAGACCTTAAGGAGATGATTTTTCAGCTTAACACTGAGAAAT 600
QY 601 CAACTACTAAGTATGATCTGTCTGAAGAAATCTCAAAATATATGTGACAGAACTGTACA 660
Db 601 CAACTACTAAGTATGATCTGTCTGAAGAAATCTCAAAATATATGTGACAGAACTGTACA 660
QY 661 ACGTTTCTATCAGCTTGCCCTTTTTCAGTCCCTGAAAGCACAAATGTGAGCGCTTTTGTG 720
Db 661 ACGTTTCTATCAGCTTGCCCTTTTTCAGTCCCTGAAAGCACAAATGTGAGCGCTTTTGTG 720
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;
; CURRENT FILING DATE: 2004-03-01
; PRIOR APPLICATION NUMBER: US/09/646,561
; PRIOR FILING DATE: 2000-09-19
; PRIOR APPLICATION NUMBER: 60/078,765
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 09/062,597
; PRIOR FILING DATE: 1998-04-17
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 27
; LENGTH: 2830
; TYPE: DNA
; ORGANISM: Felis catus
US-10-790-396-27

Query Match 96.4%; Score 1041.2; DB 19; Length 2830;
Best Local Similarity 99.7%; Pred. No. 8.4e-297;
Matches 1043; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 GTTCTGCTCTCTCGGGAATGTCACGTGAGCTATACATCTGGTCTCTGGGAGCTGCAGT 60
DB 2714 GTTCTGCTCTCTCGGGAATGTCACGTGAGCTATACATCTGGTCTCTGGGAGCTGCAGT 2655
QY 61 GGATGGGCATTTGTGACAGCACTATGGGACTGAGTCACACTCTCTCTGTGTGATGGCCCTCC 120
DB 2654 GGATGGGCATTTGTGACAGCACTATGGGACTGAGTCACACTCTCTCTGTGTGATGGCCCTCC 2595
QY 121 TGCCTCTCGGTGTTCTTCATGAAGAGTCAAGCATATTTCAACAAGACTGGAGAACTGC 180
DB 2594 TGCCTCTCGGTGTTCTTCATGAAGAGTCAAGCATATTTCAACAAGACTGGAGAACTGC 2535
QY 181 CATGCCATTTTCAAACTCTCAAAACATAAGCTGAGCTGAGTGTAGTATTTTGGCAGG 240
DB 2534 CATGCCATTTTCAAACTCTCAAAACATAAGCTGAGCTGAGTGTAGTATTTTGGCAGG 2475
QY 241 ACCAGATAAGCTGTTCTGTATGAGATATTCAGAGGCAAAAGAACCCCTCAAAATGTTTC 300
DB 2474 ACCAGATAAGCTGTTCTGTATGAGATATTCAGAGGCAAAAGAACCCCTCAAAATGTTTC 2415
QY 301 ATCTCAAAATATAGGGCCGTACAAGCTTTGACAGCAAACTGGAGCCCTGAGACTCAAC 360
DB 2414 ATCTCAAAATATAGGGCCGTACAAGCTTTGACAGCAAACTGGAGCCCTGAGACTCAAC 2355
QY 361 ATGTTCCAGATCAAGGACAGGACATATCACTGTTTCAATTCATATTAAGGCCCCAAAG 420
DB 2354 ATGTTCCAGATCAAGGACAGGACATATCACTGTTTCAATTCATATTAAGGCCCCAAAG 2295
QY 421 GACTAGTTCCTCATGCAACCAATGAGTTCTGACCTATCACTGCTTGTCTAACTTCAGTCAAC 480
DB 2294 GACTAGTTCCTCATGCAACCAATGAGTTCTGACCTATCACTGCTTGTCTAACTTCAGTCAAC 2235
QY 481 CTGAATAACAGTAACTTCTAATAGAAACAGAAAATTCCTGGCATATAAAATTTGACCTGCT 540
DB 2234 CTGAATAACAGTAACTTCTAATAGAAACAGAAAATTCCTGGCATATAAAATTTGACCTGCT 2175
QY 541 CATCTATACAAGTTTACAGAACCTTAAGAGATGATTTTTCAGCTTAACACTTGAAAT 600
DB 2174 CATCTATACAAGTTTACAGAACCTTAAGAGATGATTTTTCAGCTTAACACTTGAAAT 2115
QY 601 CAATCTAAGTATGATGCTGTCATGAAGAAATCTCAAAATATATGTGACAGAACTGTACA 660
DB 2114 CAATCTAAGTATGATGCTGTCATGAAGAAATCTCAAAATATATGTGACAGAACTGTACA 2055
QY 661 AGCTTTCTATCAGCTGCTCTTTTTCAGTCCCTGAAGCACAAATGTGAGCGCTTTTGTG 720
DB 2054 AGCTTTCTATCAGCTGCTCTTTTTCAGTCCCTGAAGCACAAATGTGAGCGCTTTTGTG 1995
QY 721 CCTGAACTGGAGACACTGGAGATGCTGCTCTCCCTACCTTTCAATATAGATGCAACAC 780
DB 1994 CCTGAACTGGAGACACTGGAGATGCTGCTCTCCCTACCTTTCAATATAGATGCAACAC 1935
QY 781 CTAAGGATAAAGCCCTGAAACAGGCCACTTCTCTGGATTTGGCGCTGTACTTGTAAATGT 840

DB 1934 CTAAGGATAAAGACCCTGAACAAGGCCACTTCTCTGGATTGCGGTGTACTTGTAAATGT 1875
QY 841 TTGTTGTTTTTTTGTGGGATGGTGTCTCTTTAAACAACCTAAGGAAAAGGAAGAACGAC 900
DB 1874 TTGTTGTTTTTTTGTGGGATGGTGTCTCTTTAAACAACCTAAGGAAAAGGAAGAACGAC 1815
QY 901 CTGGCCCTCTCTCATGAATGTGAAACCATCAAAAGGAGAGAAAAGAGAGCAACAGACCA 960
DB 1814 CTGGCCCTCTCTCATGAATGTGAAACCATCAAAAGGAGAGAAAAGAGAGCAACAGACCA 1755
QY 961 ACGAAAGAGTACCATACCAACGCTACCTGAGAGATCTGATGAAGCCCGAGTGTGTAAACATTT 1020
DB 1754 ACGAAAGAGTACCATACCAACGCTACCTGAGAGATCTGATGAAGCCCGAGTGTGTAAACATTT 1695
QY 1021 TGAAGACAGCCTCAGGGGACAAAAT 1046
DB 1694 TGAAGACAGCCTCAGGGGACAAAAGT 1669

RESULT 5

US-10-790-396-28
; Sequence 28, Application US/10790396
; Publication No. US20040157296A1
; GENERAL INFORMATION:
; APPLICANT: Sim, Gek-Kee
; APPLICANT: Yang, Shumin
; APPLICANT: Sellins, Karen S.
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC
; FILE OF INVENTION: ACID MOLECULES, AND USES THEREOF
; FILE REFERENCE: IM-1-CI-PCT
; CURRENT APPLICATION NUMBER: US/10/790,396
; CURRENT FILING DATE: 2004-03-01
; PRIOR APPLICATION NUMBER: US/09/646,561
; PRIOR FILING DATE: 2000-09-19
; PRIOR APPLICATION NUMBER: 60/078,765
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 09/062,597
; PRIOR FILING DATE: 1998-04-17
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 28
; LENGTH: 996
; TYPE: DNA
; ORGANISM: Felis catus
US-10-790-396-28

Query Match 90.7%; Score 979.2; DB 19; Length 996;
Best Local Similarity 99.7%; Pred. No. 1.1e-278;
Matches 981; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 63 ATGGGCATTTGTGACAGCACTATGGGACTGAGTCACACTCTCTGTGTGATGGCCCTCCTG 122
DB 1 ATGGGCATTTGTGACAGCACTATGGGACTGAGTCACACTCTCTGTGTGATGGCCCTCCTG 60
QY 123 CTCTCTGTTGTTTCTTCCATGAAGAGTCAAGCATATTTCAACAAGACTGGAACCTGCCA 182
DB 61 CTCTCTGTTGTTTCTTCCATGAAGAGTCAAGCATATTTCAACAAGACTGGAACCTGCCA 120
QY 183 TGCCATTTTACAACTCTCAAAACATAAGCTGAGTGTGATGAGTATTTTGGCAGGAC 242
DB 121 TGCCATTTTACAACTCTCAAAACATAAGCTGAGTGTGATGAGTATTTTGGCAGGAC 180
QY 243 CAGGATAAGCTGTTCTGTATGAGATATTCAGAGCAAGAGAAACCTCAAAATGTTCAAT 302
DB 181 CAGGATAAGCTGTTCTGTATGAGATATTCAGAGCAAGAGAAACCTCAAAATGTTCAAT 240
QY 303 CTCAATATAAGGGCCGTACAAAGCTTTTGAACAAGCACTGGACCTCTGAGACTTCCACAAT 362
DB 241 CTCAATATAAGGGCCGTACAAAGCTTTTGAACAAGCACTGGACCTCTGAGACTTCCACAAT 300
QY 363 GTTCAGATCAAGGACAAGGGCAATATCACTGTTTCAATTCATATTAAGGGCCCAAGGA 422
DB 301 GTTCAGATCAAGGACAAGGGCAATATCACTGTTTCAATTCATATTAAGGGCCCAAGGA 360

Qy	423	CTAGTCCCATGCAACCAATCAGTTCTCGACCTATCAGTGTGCTTAACCTTCAGTCAACCT	482
Db	361		420
Qy	483	GAATAACAGTAACTTCTTAATAGAAACAGAAAATTCGGCATCATAAATTTGACCTGTGTCA	542
Db	421	GAATAACAGTAACTTCTTAATAGAAACAGAAAATTCGGCATCATAAATTTGACCTGTGTCA	480
Qy	543	TCTATCAGAAGTTACCCAGAACCTTAAGGAGATGTATTTTTCAGCTAAACACTGAGAAATTC	602
Db	481	TCTATCAGAAGTTACCCAGAACCTTAAGGAGATGTATTTTTCAGCTAAACACTGAGAAATTC	540
Qy	603	ACTACTAAGTATGATCTGTCTCATGAAGAAATCTCAAATAATATGTGACAGAACTGTACAAC	662
Db	541	ACTACTAAGTATGATCTGTCTCATGAAGAAATCTCAAATAATATGTGACAGAACTGTACAAC	600
Qy	663	GTTTCTATCAGTTTGCCTTTTTCAGTCCCTGAAGCACAAATGTGAGGGTCTTTTGTGCC	722
Db	601	GTTTCTATCAGTTTGCCTTTTTCAGTCCCTGAAGCACAAATGTGAGGGTCTTTTGTGCC	660
Qy	723	CTGAAACTGGAGACACTGGAGATGCTGCTCTCCCTACCTTTCAATATAGATGCACAACT	782
Db	661	CTGAAACTGGAGACACTGGAGATGCTGCTCTCCCTACCTTTCAATATAGATGCACAACT	720
Qy	783	AAGGATTAAGACCTTGAAACAGGCCACTTCTCTGGATTCGGCTGTACTTGTAAATGTTT	842
Db	721	AAGGATTAAGACCTTGAAACAGGCCACTTCTCTGGATTCGGCTGTACTTGTAAATGTTT	780
Qy	843	GTTCGTTTTTCTGGATGGTGTCTCTTTAAACACTTAAGGAAAAAGGAGAAAGACAGCAGCT	902
Db	781	GTTCGTTTTTCTGGATGGTGTCTCTTTAAACACTTAAGGAAAAAGGAGAAAGACAGCAGCT	840
Qy	903	GGCCCTCTCTAATGAATGTGAAAACCATCAAAAGGAGAGAAAAGAGAGCAACAGACCAAC	962
Db	841	GGCCCTCTCTAATGAATGTGAAAACCATCAAAAGGAGAGAAAAGAGAGCAACAGACCAAC	900
Qy	963	GAAGAGTACCATACCACTGTAACCTGAGAGATCTCATGAAGCCAGTGTGTTTAACTTTTG	1022
Db	901	GAAGAGTACCATACCACTGTAACCTGAGAGATCTCATGAAGCCAGTGTGTTTAACTTTTG	960
Qy	1023	AAGACGCCTCAGGGGCAAAAAAT	1046
Db	961	AAGACGCCTCAGGGGCAAAAAAT	984

RESULT 6

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US-10-790-396-29/c
; Sequence 29, Application US/10790396
; Publication No. US20040157296A1
; GENERAL INFORMATION:
; APPLICANT: Sim, Gek-Kee
; APPLICANT: Yang, Shumin
; APPLICANT: Sellins, Karen S.
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY
; TITLE OF INVENTION: ACID MOLECULES, AND USES THEREOF
; FILE REFERENCE: IM-1-CI-PCT
; CURRENT APPLICATION NUMBER: US/10/790,396
; CURRENT FILING DATE: 2004-03-01
; PRIOR APPLICATION NUMBER: US/09/646,561
; PRIOR FILING DATE: 2000-09-19
; PRIOR APPLICATION NUMBER: 60/078,765
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 09/062,597
; PRIOR FILING DATE: 1998-04-17
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 29
; LENGTH: 996
; TYPE: DNA
; ORGANISM: Felis catus
US-10-790-396-29

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RESULT 7
US-10-790-396-9      .
; Sequence 9, Application US/10790396
; Publication No. US20040157296A1
; GENERAL INFORMATION:
; APPLICANT: Sim, Gek-Kee
; APPLICANT: Yang, Shumin
; APPLICANT: Sellins, Karen S.
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY
; TITLE OF INVENTION: ACID MOLECULES, AND USES THEREOF
; FILE REFERENCE: IM-1-C1-PCT
; CURRENT APPLICATION NUMBER: US/10/790,396
; CURRENT FILING DATE: 2004-03-01
; PRIOR APPLICATION NUMBER: US/09/646,561
; PRIOR FILING DATE: 2000-09-19
; PRIOR APPLICATION NUMBER: 60/078,765
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 09/062,597
; PRIOR FILING DATE: 1998-04-17
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 9
; LENGTH: 987
; TYPE: DNA
; ORGANISM: Canis familiaris
US-10-790-396-9

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Query Match	71.6%;	Score 772.8;	DB 19;	Length 987;
Best Local Similarity	88.8%;	Pred. No. 1.3e-217;		
Matches	860;	Conservative 0;	Mismatches 102;	Indels 6; Gaps 2
Qy	79	GCATATGGGACTGAGTCACACTCCTCTGTGTGATGGCCCTCTGCTCTCTGAGTTCTT	138	
Db	14	GCATATGGAACTGAATAACATCTCTCTGTGTGATGACCCCTCTGCTCTATGTGTGCTGTT	73	
Qy	139	CCATGAAGAGTCAAGCATATTTCAACAAGACTGGAGAACTGCGATGCCATTTTACAACCT	198	
Db	74	CCATGAAGAGTCAAGCATATTTCAACAAGACTGGAGAACTGCGATGCCATTTTACAACAT	133	
Qy	199	CTCAAAACATTAAGCCTGGATGAGCTGGTGTAGTATTTTGGGAGAGACACAGGATAGCTGGTTC	258	
Db	134	CTCAAAACATTAAGCCTGGATGAGCTGGTGTAGTATTTTGGGAGAGACACAGGATAGCTGGTTC	193	
Qy	259	TGTTATGAGATATTCAAGGGCAAGAGAACCTTCAAAAATGTTTCATCTCAAAATATAAGGGCC	318	
Db	194	TGTACGAGCTATACAGAGGCAAGAGAACCTTCAAAAATGTTTCATCGAAAGTATATAAGGGCC	253	
Qy	319	GTACAAGCTTTTGACAAGGACAACTGGACCCCTGGAGACTCCACAATGTTTCAGATCAAGGACA	378	
Db	254	GCAACAAGCTTTTGACAAGGACAACTGGACCCCTGGAGACTCCATAATATTCAGATCAAGGACA	313	
Qy	379	AGGGCACAATATCACTGTTTTCAATTTATTAAGGGCCCAAGGACTAGTTCCTCATGCAACC	438	
Db	314	AGGGCTTGATCAATGTTTTCGTTTCATCATAAAGGGCCCAAGGACTCGTTCCCATGCAACC	373	
Qy	439	AAATGAGTTCTGACCTATCAGTGCTGTGCTTAATTCAGTCAACTCAAGTAAACAGTAACTT	498	
Db	374	AGATGAATCTTGACCTATCAGTGCTGTGCTTAATTCAGTCAACTCAAGTAAATGGTAACTT	433	
Qy	499	CTAATAGAACAGAAAAATCTGGCATCATAAATTTTGACCTGCTCATCTATACAAAGGTTTACC	558	
Db	434	CTAATAGAACAGAAAAATCTGGCATCATAAATTTTGACCTGCTCATCTATACAAAGGTTTACC	493	
Qy	559	CAGAACCTTAAGGAGATGATTTTTCAGCTTAAACACTGAGAAATTCACACTAAGTATGATA	618	
Db	494	CAGAACCCCAAGGAGATGATTTTTCAGCTTAAACACTGAGAAATTCACACTAAGTATGATA	553	
Qy	619	CTGTTCAGAAAGAAATCTCAAAATATATGTGACAGAACTGTACAAACGTTTCTATCAGCTGTC	678	
Db	554	CTGTTCAGAAAGAAATCTCAAAATATATGTGACAGAACTGTACAAACGTTTCTATCAGCTGTC	613	
Qy	679	CTTTTTTCAGTCCCTGGAAGCACACAATGTGAGCGCTCTTTTGTGCCCTCGAACTGGAGACAC	738	

Dd	614	CCTTCTCAGTCCCTGAAGCAAGAATGTGACGACTTTCTGTGTCTCTGCAACTTGAGTCAA	673
Qy	739	TGGAGATGCTGCTCTCCCTACCTTTTCAATATAGATGCACAACCTTAAGATAAAGACCCTG	798
Dd	674	T---GAAGTTCCCTCCCTACCTTTATATAATAGATGCACA---TACGAAACCCACCCCCTG	727
Qy	799	AACAAGGCCACTTCTCTCTGGATTGGGGCTGTACTTGTAAATGTTTTGTTGTTTTTGTGGGA	858
Dd	728	ATGAGAGACCACATCTCTGGATTGGGGCTCTGCTTGTAAATGTTGTGTCAATTTTGTGTGGGA	787
Qy	859	TGGTGTCTCTTTAAAACACTTAAGGAAAAAGGAAGAAGAACGCGCTGGCCCCCTCTCATGAAT	918
Dd	788	TGGTGTCTCTTTCTTAACACTAAGGAAAAAGGAAGAAGACGAGCTGGCCCCCTCTCAIGRAAT	847
Qy	919	GTGAAACCATCAAAGGGAGAGAAAAAGAGAGACAAACAGACAAACGAAAGAGTACCATACC	978
Dd	848	GTGAAACCAACAAAGTGTGAGAGAAAAAGAAAGTGTGACAGACCAAGGAAAGAGTACGGTACC	907
Qy	979	ACGTACCTGAGAGATCTGATGAAGCCAGTGTGTTAACTTTTGAAGACAGCCTCAGGGG	103
Dd	908	ATGAAACGGAAGAAGATCTGATGAAGCCAGTGTGTTAACTTTTGAAGACAGCCTCAGGGG	967
Qy	1039	ACAAAAT 1046	
Dd	968	ACAACGT 975	

RESULT 8

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US-10-790-396-10/c
; Sequence 10, Application US/10790396
; Publication No. US20040157296A1
; GENERAL INFORMATION:
; APPLICANT: Sim, Gek-Kee
; APPLICANT: Yang, Shumin
; APPLICANT: Sellins, Karen S.
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES, AND USES THEREOF
; FILE REFERENCE: IM-1-CI-PCT
; CURRENT APPLICATION NUMBER: US/10/790,396
; CURRENT FILING DATE: 2004-03-01
; PRIOR APPLICATION NUMBER: US/09/646,561
; PRIOR FILING DATE: 2000-09-19
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 09/062,597
; PRIOR FILING DATE: 1998-04-17
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 10
; LENGTH: 987
; TYPE: DNA
; ORGANISM: Canis familiaris
; US-10-790-396-10
    
```

	Query Match	71.6%;	Score 772.8;	DB 19;	Length 987;
	Best Local Similarity	88.8%;	Prod. No. 1.3e-217;		
	Matches 860;	Conservative 0;	Mismatches 102;	Indels 6;	Gaps 2
QY	79	GCATATGGGACTGAGTCACACTCTCCTGTGTGATGGCCCTCTCGTCTCTCTGTGTGTTCTT	138		
DB	974	GCATATGGAACTGAATAACATTCTCTTTGTGTGACCCCTCTGCTCTATGGTGTGCTTT	915		
QY	139	CCATGAAGAGTCAAGCATATTTCAACAAGA CTGGAGAACTGCGCATTCGCAATTTTACAAACT	198		
DB	914	CCATGAAGAGTCAAGCATATTTCAACAAGA CTGGAGAACTGCGCATTCGCAATTTTACAAACT	855		
QY	199	CTCAAAACATAAGCCTGGATCAGCTGGTAGTATTTTGGCAGGAC CAGAGTAAGCTGGTTC	258		
DB	854	CTCAAAACATAAGCCTGGATCAGCTGGTAGTATTTTGGCAGGAC CAGAGTAAGCTGGTTC	795		
QY	259	TGTATGAGATATT CAGAGGCAAGAGAA CCGCTCAAAATGTTTCATCTCAAAATATAAGGGCC	318		
DB	794	TGTACGAGCTATACAGAGGCAAGAGAA CCGCTCAAAATGTTTCATCGCAAGTATAAGGGCC	735		


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QY 319 GTACAAAGCTTTGACAGGACCACTGGACCCCTGAGACTCCAAATGTTTCAGATCAAGGACA 378
D 734 GCACAAAGCTTTGACAAAGCAATTTGGACCTGAGACTCCATAATATTCAGATCAAGGACA 675
QY 379 AGGCGACATATCACTGTTTCATTCATATATAAGGCGCCCAAGGACTAGTTCCTCATGCACC 438
D 674 AGGCGCTGTATCAATGTTTCGTTTCATATATAAGGCGCCCAAGGACTAGTTCCTCATGCACC 615
QY 439 AAATGAGTCTCTGACCTATCAGTCTGCTGCTAACTTTCAGTCAACCTGAAATTAACAGTAAT 498
D 614 AGATGAATCTGACCTATCAGTCTGCTGCTAACTTTCAGTCAACCTGAAATTAATGTAAT 555
QY 499 CTAATAGACAGAAAAATTTCTGGCATCATAAATTTGACCTGCTCATCTATCAACAGGTTACC 558
D 554 CTAATAGACAGAAAAATTTCTGGCATCATAAATTTGACCTGCTCATCTATCAACAGGTTACC 495
QY 559 CAGAACCTAGGAGATGTTATTTTTCAGTCAACCTGAGAACTGAGAACTGAGAACTGAGAACT 618
D 494 CAGAACCTAGGAGATGTTATTTTTCAGTCAACCTGAGAACTGAGAACTGAGAACTGAGAACT 435
QY 619 CTGTATGAGAAATCTCAAAATAATGTGACAGAACTGTACAACTGTTTCTATCAGCTTGC 678
D 434 CTGTATGAGAAATCTCAAAATAATGTGACAGAACTGTACAACTGTTTCTATCAGCTTGT 375
QY 679 CTTTTCAGTCCCTGAGACACAAATGTGAGCGTCTTTTGTGCGCTGAAACTGAGACAC 738
D 374 CTTTTCAGTCCCTGAGACCAAGCAATGTGAGCATCTTCTGTGCTGCACTTGTAGTCAA 315
QY 739 TGGAGATGCTGCTCTCCCTACCTTTCAATATAGATGACCAACCTAAGGATAAGACCTG 798
D 314 T---GAAGCTTCCCTCCCTACCTTTAATATAGATGACACA---TAGAAACCCACCCCTG 261
QY 799 AACAAAGCCACTTCTCTGATTTGGCGCTGCTACTGTAATGTTTGTGTTTGTGCGGA 858
D 260 ATGGAGACCATCTCTGATTTGGCGCTGCTGCTGTAATGTTTGTGTTTGTGCGGA 201
QY 859 TGGTGTCTTTAAACACATAAGGAAAGGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 918
D 200 TGGTGTCTTTTAAACACATAAGGAAAGGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 141
QY 919 GTGAACCATCAAAAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 978
D 140 GTGAACCATCAAAAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 81
QY 979 AGTACCTGAGAGATCTGATGAGCCAGTGTGTTAAACATTTTGAAGACAGCTCAGGGG 1038
D 80 ATGAACGGAAGATCTGATGAGCCAGTGTGTTAAACATTTTGAAGACAGCTCAGGGG 21
QY 1039 ACAAAAT 1046
D 20 ACAACAGT 13

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RESULT 9
US-10-790-396-6
; Sequence 6, Application US/10790396
; Publication No. US20040157296A1
; GENERAL INFORMATION:
; APPLICANT: Sim, Gek-Ke
; APPLICANT: Yang, Shumin
; APPLICANT: Sellins, Karen S.
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES, AND USES THEREOF
; FILE REFERENCE: IM-1-CI-PCT
; CURRENT APPLICATION NUMBER: US/10/790,396
; CURRENT FILING DATE: 2004-03-01
; PRIOR APPLICATION NUMBER: US/09/646,561
; PRIOR FILING DATE: 2000-09-19
; PRIOR APPLICATION NUMBER: 60/078,765
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 09/062,597
; PRIOR FILING DATE: 1998-04-17

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; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 6
; LENGTH: 1897
; TYPE: DNA
; ORGANISM: Canis familiaris
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (6)..(992)
US-10-790-396-6

Query Match      71.6%; Score 772.8; DB 19; Length 1897;
Best Local Similarity 88.8%; Pred. No. 1.9e-217;
Matches 860; Conservative 0; Mismatches 102; Indels 6; Gaps 2;

QY 79 GCACATATGGAGCTGAGTGCACACTCTCTTGTGATGCGCCCTCTGCTCTCTGCTGTTCTT 138
D 19 GCACATATGGAGCTGAGTGCACACTCTCTTGTGATGCGCCCTCTGCTCTCTGCTGTTCTT 78
QY 139 CCATGAAGAGTCAAGCATATTTCAACAAGACTGGAGAACTGCCATGCCATTTTACAAACT 198
D 79 CCATGAAGAGTCAAGCATATTTCAACAAGACTGGAGAACTGCCATGCCATTTTACAAACT 138
QY 199 CTCAAAAACATAAGCCCTGGATGAGCTGGTAGTATTTTGGCAGGACCAAGGATAAGCTGGTTC 258
D 139 CTCAAAAACATAAGCCCTGGATGAGCTGGTAGTATTTTGGCAGGACCAAGGATAAGCTGGTTC 198
QY 259 TGTATGAGATATTCAGAGCGCAAGAGAACCCCTCAAAATGTTTCTCATATAATAAGGGCC 318
D 199 TGTATGAGATATTCAGAGCGCAAGAGAACCCCTCAAAATGTTTCTCATATAATAAGGGCC 258
QY 319 GTACAAGCTTTGACAAGGACAACTGGACCCCTGAGACTCCACAATGTTTCAGATCAAGGACA 378
D 259 GTACAAGCTTTGACAAGGACAACTGGACCCCTGAGACTCCACAATGTTTCAGATCAAGGACA 318
QY 379 AGGCGACATATCACTGTTTTCATTCATATAAAGGCGCCCAAGGACTAGTTCCTCATGCACC 438
D 319 AGGCGCTGTATCAATGTTTTCATTCATATAAAGGCGCCCAAGGACTAGTTCCTCATGCACC 378
QY 439 AAATGAGTCTGACCTATCAGTCTGCTTAACTTCAGTCAACCTGAAATTAACAGTAAT 498
D 379 AAATGAGTCTGACCTATCAGTCTGCTTAACTTCAGTCAACCTGAAATTAACAGTAAT 438
QY 499 CTAATAGAACAGAAAAATCTGGCATCATATAATTTGACCTGCTCTCATCAAGGTTACC 558
D 439 CTAATAGAACAGAAAAATCTGGCATCATATAATTTGACCTGCTCTCATCAAGGTTACC 498
QY 559 CAGAACCTAAGGAGATGTTATTTTCAGCTTAAACACTGAGAAATTCAACTACTAAGTATGATA 618
D 499 CAGAACCTAAGGAGATGTTATTTTTCAGCTTAAACACTGAGAAATTCAACTACTAAGTATGATA 558
QY 619 CTGTATGAGAAATCTCAAAATAATGTGACAGAACTGTACAACTGTTTCTATCAGCTTGC 678
D 559 CTGTATGAGAAATCTCAAAATAATGTGACAGAACTGTACAACTGTTTCTATCAGCTTGT 618
QY 679 CTTTTCAGTCCCTGACAGACAACTGAGCGTCTTTTGTGCGCTGAAACTGGAGACAC 738
D 619 CTTTTCAGTCCCTGACAGACAACTGAGCGTCTTTTGTGCGCTGAAACTGGAGACAC 678
QY 739 TGGAGATGCTGCTCTCCCTACCTTTCAATATAGATGACAACTAAGGATAAAGACCTG 798
D 679 T---GAAGCTTCCCTCCCTACCTTTAATATAGATGACACA---TAGAAACCCACCCCTG 732
QY 799 AACAAAGGCACTTCTCTGATTTGGCGCTGACTGTTAATGTTTGTGTTTGTGTTGTTGGA 858
D 733 ATGGAGACCACTCTCTGATTTGGCGCTGCTGTTGTAATGTTGTTGTTGTTGTTGTTGGA 792
QY 859 TGGTGTCTTTTAAACACATAAGGAAAGGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 918
D 793 TGGTGTCTTTTAAACACATAAGGAAAGGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 852
QY 919 GTGAACCATCAAAAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 978
D 919 GTGAACCATCAAAAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG

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Db	853	GTGAAACCAACAAGTGGAGAGAAAAGAAAGTGTAGCGAGACCAAGGAAAGAGTACGTTACC	912
Qy	979	ACGTACTCTGAGACATCTGATGAAGCCAGCTGTGTTAAACATTTTGAAGACAGCCTCAGGGG	1038
Db	913	ATGAACCGGAAGATCTGATGAAGCCAGCTGTGTTAACTTTCGAGACAGCTTCAGCG	972
Qy	1039	ACAAAAAT 1046	
Db	973	ACAACAGT 980	

RESULT 10
 US-10-790-396-8/c
 ; Sequence 8, Application US/10790396
 ; Publication No. US20040157296A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Sim, Gek-Kea
 ; APPLICANT: Yang, Shumin
 ; APPLICANT: Sellins, Karen S.
 ; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY
 ; TITLE OF INVENTION: ACID MOLECULES, AND USES THEREOF
 ; FILE REFERENCE: IM-1-Cl-PCT
 ; CURRENT APPLICATION NUMBER: US/10/790,396
 ; CURRENT FILING DATE: 2004-03-01
 ; PRIOR APPLICATION NUMBER: US/09/646,561
 ; PRIOR FILING DATE: 2000-09-19
 ; PRIOR APPLICATION NUMBER: 60/078,765
 ; PRIOR FILING DATE: 1998-03-19
 ; PRIOR APPLICATION NUMBER: 09/062,597
 ; PRIOR FILING DATE: 1998-04-17
 ; NUMBER OF SEQ ID NOS: 65
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 8
 ; LENGTH: 1897
 ; TYPE: DNA
 ; ORGANISM: Canis familiaris
 US-10-790-396-8

Query Match	71.6%;	Score 772.8;	DB 19;	Length 1897;
Best Local Similarity	88.8%;	Pred. No. 1.9e-217;		
Matches 860;	Conservative 0;	Mismatches 102;	Indels 6;	Gaps 2;
Qy	79	GCATATGGGACTCAGTCACACTCTCTGTGTATGGCCCTCGCTCTCTCGGTGTTTCTT	138	
Db	1879	GCATATGGAACTGAAATAACATTCCTCTTTGTGATGACCCCTCTGCTCTATGGTGTGCTT	1820	
Qy	139	CCATGAAGAGTCAAGCATATTTCAACAAGACTGGAGAACTGCCANTGCCATTTTACAAACT	198	
Db	1819	CCATGAAGAGTCAAGCATATTTCAACAAGACTGGAGAACTGCCATGTCATTTTACAAATT	1760	
Qy	199	CTCAAAACATAAGCCTCGATGAGCTGTGTAGTATTTTGGCAGGACGAGATAAGCTGTTTC	258	
Db	1759	CTCAAAACATAAGCCTCGATGAGTGTGTAGTGTGTTTGGCAGGACCGAGATAAGCTGTTTC	1700	
Qy	259	TGTATGAGATATTCAGAGGCAAGAGAACCCCTCAAAATGTTTCATCTCAAAATATAAGGCC	318	
Db	1699	TGTACGAGCTATACAGAGGCAAGAGAAACCCCTCAAAATGTTTCATCGCAAGTATAAGGCC	1640	
Qy	319	GTACAAGCTTTGACAAGGACAACTGGACCTGGACCTCCAGTCCCAATGTTTCAGATCAAGACA	378	
Db	1639	GCACAAGCTTTGACAAGCAAAATTTGGACCTTGAGACTCCATAATATTTTCAGATCAAGACA	1580	
Qy	379	AGGSCACATATCACTGTGTTTCATTCATTTATAAAGGGCCCAAAGGACTAGTTCCTCATGCC	438	
Db	1579	AGGCTTGTATCAATGTTTCGTTTCATATAAAGGGCCCAAAGGACTCGTTCCTCATGCC	1520	
Qy	439	AAATGAGTCTTGACCTATCAGTGCCTGCTTAACCTTCAGTCAACCTCGAATACACAGTAACTT	498	
Db	1519	AGATGAATTTTGACCTATCAGTGCCTGCTTAACCTTCAGTCAACCTCGAATATGTGTAACCTT	1460	
Qy	499	CTAATAGAACAAGAAAATTTCTGGCATCATAAATTTTGACCTGCTCATCTATACAAGTTTACC	558	
Db	1459	CTAATAGAACAAGAAAATTTCTGGCATCATAAATTTTGACCTGCTCATCTATACAAGTTTACC	1400	

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RESULT 11
US-10-790-396-19
; Sequence 19, Application US/10790396
; Publication No. US20040157296A1
; GENERAL INFORMATION:
; APPLICANT: Sim, Gek-Keo
; APPLICANT: Yang, Shumin
; APPLICANT: Sellins, Karen S.
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY
; TITLE OF INVENTION: ACID MOLECULES, AND USES THEREOF
; FILE REFERENCE: IM-1-C1-PCT
; CURRENT APPLICATION NUMBER: US/10790,396
; CURRENT FILING DATE: 2004-03-01
; PRIOR APPLICATION NUMBER: US/09/646,561
; PRIOR FILING DATE: 2000-09-19
; PRIOR APPLICATION NUMBER: 60/078,765
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 09/062,597
; PRIOR FILING DATE: 1998-04-17
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 19
; LENGTH: 840
; TYPE: DNA
; ORGANISM: Canis familiaris
US-10-790-396-19

Query Match          53.9%; Score 582.2; DB 19; Length 840;
Best Local Similarity 89.4%; Pred. No. 3.1e-161;
Matches 639; Conservative 0; Mismatches 73; Indels 3; Gaps 1;

Qy 79 GCATATGGGACTGAGTCACTCTCTTTGTGATGGCCCTCCTGCTCTCTGGGTGTTCTT 138
db 14 GCATATGGGAACGAAATAAACATCTCTTTGTGATGACCTCCCTGCTCTATGGTGTGCT 73

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QY 139 CCATGAAGAGTCAAGCATATTTCAACAGACTGGAGAACTGCCATGCCATTTTACAAACT 198
DB 74 CCATGAAGAGTCAAGCATATTTCAACAGACTGGAGAACTGCCATTTTACAAACT 133
QY 199 CTCAAAACATAAGCTGGAGTGGTGTAGTATTTTGGCAGGACCAAGGATAAGCTGGTTC 258
DB 134 CTCAAAACATAAGCTGGAGTGGTGTAGTATTTTGGCAGGACCAAGGATAAGCTGGTTC 193
QY 259 TGTATGAGATATTTCAAGAGCAAGAGAACCTCAAAATGTTTCATCTCAAAATATAAGGGCC 318
DB 194 TGTACGAGCTATACAGAGCAAGAGAACCTCAAAATGTTTCATCGCAAGTATAAGGGCC 253
QY 319 GTACAGAGCTTTGACAGGACCAAGTGGACCTGGAGCTCCAAATGTTTCAGATCAAGGACA 378
DB 254 GCACAGAGCTTTGACAGGACCAAGTGGACCTGGAGCTCCAAATGTTTCAGATCAAGGACA 313
QY 379 AGGGCACATATCACTGTTTCATTTATTAAGGGCCCAAGGACTAGTTCCTCATGCAACC 438
DB 314 AGGGCTTGTATCAATGTTTCATTTATTAAGGGCCCAAGGACTAGTTCCTCATGCAACC 373
QY 439 AAATGAGTTCAGACCTATCAGTGTCTTGTAACTTTCAGTCAACCTGAAATATAAGTAACTT 498
DB 374 AGATGAAATTCAGACCTATCAGTGTCTTGTAACTTTCAGTCAACCTGAAATATAAGTAACTT 433
QY 499 CTAAATGAGACAGAAATTCGGCATCATAAATTTGACCTGCTCATCTATAAGGTTACC 558
DB 434 CTAAATGAGACAGAAATTCGGCATCATAAATTTGACCTGCTCATCTATAAGGTTACC 493
QY 559 CAGAACCTAAGGAGATGATTTTTCAGTCAACCTGAGAACTCAACTACTAGTATGATA 618
DB 494 CAGAACCTAAGGAGATGATTTTTCAGTCAACCTGAGAACTCAACTACTAGTATGATA 553
QY 619 CTGTCTAAGAAATCTCAAAATAATGTGACAGAACTGTACAACTGTTCTATCAGCTTGC 678
DB 554 CTGTCTAAGAAATCTCAAAATAATGTGACAGAACTGTACAACTGTTCTATCAGCTTGT 613
QY 679 CTTTTCAGTCCCTGAGACACAAATGTGAGCGTCTTTTGTGCGCCCTGAAACTGGAGACAC 738
DB 614 CTTTTCAGTCCCTGAGACACAAATGTGAGCGTCTTTTGTGCGCCCTGAAACTGGAGTCAA 673
QY 739 TGGAGATGCTGCTCTCCCTACCTTTCAATATAGATGCACAACTTAAGGATAAGA 793
DB 674 T---GAAGCTTCCCTCCCTACCTTTAATATAGAAACCAACAAAGTGGAGAGAAA 725

RESULT 12

US-10-790-396-20/c
; Sequence 20, Application US/10790396
; Publication No. US20040157296A1
; GENERAL INFORMATION:
; APPLICANT: Sim, Gek-Kee
; APPLICANT: Yang, Shumin
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC
; FILE REFERENCE: IM-1-CI-PCT
; CURRENT APPLICATION NUMBER: US/10/790,396
; CURRENT FILING DATE: 2004-03-01
; PRIOR APPLICATION NUMBER: US/09/646,561
; PRIOR FILING DATE: 2000-09-19
; PRIOR APPLICATION NUMBER: 60/078,765
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 09/062,597
; PRIOR FILING DATE: 1998-04-17
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 20
; LENGTH: 840
; TYPE: DNA
; ORGANISM: Canis familiaris
US-10-790-396-20

Query Match

53.9%; Score 582.2; DB 19; Length 840;

Best Local Similarity 89.4%; Pred. No. 3.1e-161;
Matches 639; Conservative 0; Mismatches 73; Indels 3; Gaps 1;
QY 79 GCATATGGAGTCAAGTCACTCTCTGTGATGGCCCTCTGCTCTCTGCTGTTTCTT 138
DB 827 GCATATGGAGTCAAGTCACTCTCTGTGATGGCCCTCTGCTCTCTGCTGTTTCTT 768
QY 139 CCATGAAGAGTCAAGCATATTTCAACAGACTGGAGAACTGCCATGCCATTTTACAAACT 198
DB 767 CCATGAAGAGTCAAGCATATTTCAACAGACTGGAGAACTGCCATGCCATTTTACAAACT 708
QY 199 CTCAAAACATAAGCTGGAGTGGTGTAGTATTTTGGCAGGACCAAGGATAAGCTGGTTC 258
DB 707 CTCAAAACATAAGCTGGAGTGGTGTAGTATTTTGGCAGGACCAAGGATAAGCTGGTTC 648
QY 259 TGTATGAGATATTTCAAGAGCAAGAGAACCTCAAAATGTTTCATCTCAAAATATAAGGGCC 318
DB 647 TGTACGAGCTATACAGAGCAAGAGAACCTCAAAATGTTTCATCGCAAGTATAAGGGCC 588
QY 319 GTACAGAGCTTTGACAGGACCAAGTGGACCTGGAGCTCCAAATGTTTCAGATCAAGGACA 378
DB 587 GCACAGAGCTTTGACAGGACCAAGTGGACCTGGAGCTCCAAATGTTTCAGATCAAGGACA 528
QY 379 AGGGCACATATCACTGTTTCATTTATTAAGGGCCCAAGGACTAGTTCCTCATGCAACC 438
DB 527 AGGGCTTGTATCAATGTTTCATTTATTAAGGGCCCAAGGACTAGTTCCTCATGCAACC 468
QY 439 AAATGAGTTCAGACCTATCAGTGTCTTGTAACTTTCAGTCAACCTGAAATATAAGTAACTT 498
DB 467 AGATGAAATTCAGACCTATCAGTGTCTTGTAACTTTCAGTCAACCTGAAATATAAGTAACTT 408
QY 499 CTAATAGAACAGAAATTCGGCATCATAAATTTGACCTGCTCATCTATAAGGTTACC 558
DB 407 CTAATAGAACAGAAATTCGGCATCATAAATTTGACCTGCTCATCTATAAGGTTACC 348
QY 559 CAGAACCTAAGGAGATGATTTTTCAGTCAACCTGAGAACTCAACTACTAGTATGATA 618
DB 347 CAGAACCTAAGGAGATGATTTTTCAGTCAACCTGAGAACTCAACTACTAGTATGATA 288
QY 619 CTGTCTAAGAAATCTCAAAATAATGTGACAGAACTGTACAACTGTTCTATCAGCTTGC 678
DB 287 CTGTCTAAGAAATCTCAAAATAATGTGACAGAACTGTACAACTGTTCTATCAGCTTGT 228
QY 679 CTTTTCAGTCCCTGAGACACAAATGTGAGCGTCTTTTGTGCGCCCTGAAACTGGAGACAC 738
DB 227 CTTTTCAGTCCCTGAGACACAAATGTGAGCGTCTTTTGTGCGCCCTGAAACTGGAGTCAA 168
QY 739 TGGAGATGCTGCTCTCCCTACCTTTCAATATAGATGCACAACTTAAGGATAAGA 793
DB 167 T---GAAGCTTCCCTCCCTACCTTTAATATAGAAACCAACAAAGTGGAGAGAAA 116

RESULT 13

US-10-790-396-16
; Sequence 16, Application US/10790396
; Publication No. US20040157296A1
; GENERAL INFORMATION:
; APPLICANT: Sim, Gek-Kee
; APPLICANT: Yang, Shumin
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC
; FILE REFERENCE: IM-1-CI-PCT
; CURRENT APPLICATION NUMBER: US/10/790,396
; CURRENT FILING DATE: 2004-03-01
; PRIOR APPLICATION NUMBER: US/09/646,561
; PRIOR FILING DATE: 2000-09-19
; PRIOR APPLICATION NUMBER: 60/078,765
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 09/062,597
; PRIOR FILING DATE: 1998-04-17
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 16
; LENGTH: 1795
; TYPE: DNA
; ORGANISM: Canis familiaris
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (7) .. (846)
US-10-790-396-16

Query Match 53.9%; Score 582.2; DB 19; Length 1795;
Best Local Similarity 89.4%; Pred. No. 4.8e-161;
Matches 639; Conservative 0; Mismatches 73; Indels 3; Gaps 1;

QY 79 GCACATATGGAGCTGAGTCAACATATTTCAACAGAGCTGGAGAACTGCCATGCCATTTTACAAACT 138
DB 20 GCACATATGGAGCTGAGTCAACATATTTCAACAGAGCTGGAGAACTGCCATGCCATTTTACAAACT 79
QY 139 CCATGAAGAGTCAAGCATATTTCAACAGAGCTGGAGAACTGCCATGCCATTTTACAAACT 198
DB 80 CCATGAAGAGTCAAGCATATTTCAACAGAGCTGGAGAACTGCCATGCCATTTTACAAACT 139
QY 199 CTCAAAACATAGACCTGGATGAGCTGGTATGTTTGGCAGGACCCAGGATAAGCTGGTTC 258
DB 140 CTCAAAACATAGACCTGGATGAGCTGGTATGTTTGGCAGGACCCAGGATAAGCTGGTTC 199
QY 259 TGTATGAGATATTCAGAGCAAGAGAACCTCAAAATGTTTCATCTCAAAATATTAAGGGCC 318
DB 200 TGTATGAGATATTCAGAGCAAGAGAACCTCAAAATGTTTCATCTCAAAATATTAAGGGCC 259
QY 319 GTACAAAGCTTTGACAAAGCAACTGGACCTCGAGACTCCACAAATGTTTCAGATCAAGGACA 378
DB 260 GCACAAAGCTTTGACAAAGCAACTGGACCTCGAGACTCCACAAATATTCAGATCAAGGACA 319
QY 379 AGGGCAACATACCTGTTTCATTCATATTAAGGGCCCAAGAGACTAGTTCCTCATGACCC 438
DB 320 AGGGCTTGTATCAATGTTTCATTCATATTAAGGGCCCAAGAGACTAGTTCCTCATGACCC 379
QY 439 AAATGAGTTTCAGCTATCAGTGTCTGTTCACTTCACTCAACCTGAAATTAACAGTAACTT 498
DB 380 AGATGAAATTCAGCTATCAGTGTCTGTTCACTTCACTCAACCTGAAATTAACAGTAACTT 439
QY 499 CTAATAGAACAGAAATTCGGCATCAATAATTTGACCTGCTCATCTATPACAAGGTTACC 558
DB 440 CTAATAGAACAGAAATTCGGCATCAATAATTTGACCTGCTCATCTATPACAAGGTTACC 499
QY 559 CAGAACCTAAGGAGATGTTTTCAGCTAAACACTGAGAAATTCACACTACTAGTATGATA 618
DB 500 CAGAACCTAAGGAGATGTTTTCAGCTAAACACTGAGAAATTCACACTACTAGTATGATA 559
QY 619 CTGTATGAGAAATTCAGCTAAACACTGAGAAATTCACACTACTAGTATGATA 678
DB 560 CTGTATGAGAAATTCAGCTAAACACTGAGAAATTCACACTACTAGTATGATA 619
QY 679 CTTTTCAGTCCCTGAGACACACAAATGTGAGCGCTCTTTTGTGCCCTGAAACTGGAGACAC 738
DB 620 CTTTTCAGTCCCTGAGACACACAAATGTGAGCGCTCTTTTGTGCCCTGAAACTGGAGTCAA 679
QY 739 TGGAGATGCTGCTCTCCCTACCTTCAATATAGATGACACAACTAAGGATAAGA 793
DB 680 T---GAAGCTCCCTCCCTACCTTCAATATAGATGACACAACTAAGGATAAGA 731

RESULT 14
US-10-790-396-18/c
; Sequence 18, Application US/10790396
; Publication No. US20040157296A1
; GENERAL INFORMATION:
; APPLICANT: Sim, Gek-Ke
; APPLICANT: Yang, Shumin
; APPLICANT: Sellins, Karen S.
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES, AND USES THEREOF
; FILE REFERENCE: IM-1-CI-PT

; CURRENT APPLICATION NUMBER: US/10790396
; CURRENT FILING DATE: 2004-03-01
; PRIOR APPLICATION NUMBER: US/09/646,561
; PRIOR FILING DATE: 2000-09-19
; PRIOR APPLICATION NUMBER: 60/078,765
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 09/062,597
; PRIOR FILING DATE: 1998-04-17
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 18
; LENGTH: 1795
; TYPE: DNA
; ORGANISM: Canis familiaris
US-10-790-396-18

Query Match 53.9%; Score 582.2; DB 19; Length 1795;
Best Local Similarity 89.4%; Pred. No. 4.8e-161;
Matches 639; Conservative 0; Mismatches 73; Indels 3; Gaps 1;

QY 79 GCACATATGGAGCTGAGTCAACATATTTCAACAGAGCTGGAGAACTGCCATGCCATTTTACAAACT 138
DB 1776 GCACATATGGAGCTGAGTCAACATATTTCAACAGAGCTGGAGAACTGCCATGCCATTTTACAAACT 1717
QY 139 CCATGAAGAGTCAAGCATATTTCAACAGAGCTGGAGAACTGCCATGCCATTTTACAAACT 198
DB 1716 CCATGAAGAGTCAAGCATATTTCAACAGAGCTGGAGAACTGCCATGCCATTTTACAAACT 1657
QY 199 CTCAAAACATAGACCTGGATGAGCTGGTATGTTTGGCAGGACCCAGGATAAGCTGGTTC 258
DB 1656 CTCAAAACATAGACCTGGATGAGCTGGTATGTTTGGCAGGACCCAGGATAAGCTGGTTC 1597
QY 259 TGTATGAGATATTCAGAGCAAGAGAACCTCAAAATGTTTCATCTCAAAATATTAAGGGCC 318
DB 1596 TGTATGAGATATTCAGAGCAAGAGAACCTCAAAATGTTTCATCTCAAAATATTAAGGGCC 1537
QY 319 GTACAAAGCTTTGACAAAGCAACTGGACCTCGAGACTCCACAAATGTTTCAGATCAAGGACA 378
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RESULT 15
US-09-962-436-556
; Sequence 556, Application US/09962436
; Patent No. US20020081301A1

GENERAL INFORMATION:

APPLICANT: Soppet, Daniel
TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu
FILE OF INVENTION: Sets
FILE REFERENCE: 689290-75
CURRENT APPLICATION NUMBER: US/09/962,436
CURRENT FILING DATE: 2001-09-25
PRIOR APPLICATION NUMBER: US/60/235,082
PRIOR FILING DATE: 2000-09-25
PRIOR APPLICATION NUMBER: US/60/234,924
PRIOR FILING DATE: 2000-09-25
NUMBER OF SEQ ID NOS: 568
SOFTWARE: PatentIn version 3.0
SEQ ID NO 556
LENGTH: 1424
TYPE: DNA
ORGANISM: Homo sapiens
US-09-962-436-556

Query Match 53.8%; Score 580.6; DB 9; Length 1424;

Best Local Similarity 75.9%; Pred. No. 1.3e-160;

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Job time : 826 secs

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GenCore version 5.1.6
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SUMMARIES

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4	1041.2	96.4	2830	16	US-09-062-597A-25	Sequence 25, Appl
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ALIGNMENTS

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				APPLICANT: Hash, Stephen M.	
				APPLICANT: Insou, Choi	
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				TITLE OF INVENTION: And Polypeptides	
				FILE REFERENCE: 54954-A	
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				CURRENT FILING DATE: 1998-05-01	
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		Matches 1080; Conservative		0; Mismatches 0; Indels 0; Gaps 0;	
QY	1	GTTCCTGTTCTCTCGGAATGTCACTGAGCTTATACATCTGGTCTCTGGGAGCTGCAGT	60		
DB	1	GTTCCTGTTCTCTCGGAATGTCACTGAGCTTATACATCTGGTCTCTGGGAGCTGCAGT	60		
QY	61	GGATGGGCAATTTGTACAGCACTATGGGCACTGAGTCACACTCTCTGTGTATGGCCCTCC	120		
DB	61	GGATGGGCAATTTGTACAGCACTATGGGCACTGAGTCACACTCTCTGTGTATGGCCCTCC	120		
QY	121	TGCTCTCTGGTGTCTTCCATGAAGAGTCAAGCATATTTCAACAAGACTGGAGAACTGC	180		
DB	121	TGCTCTCTGGTGTCTTCCATGAAGAGTCAAGCATATTTCAACAAGACTGGAGAACTGC	180		
QY	181	CATGCCATTTTACAAACTCTCAAAACATAAGCTGGATGAGCTGGTAGTATTTGGCAGG	240		
DB	181	CATGCCATTTTACAAACTCTCAAAACATAAGCTGGATGAGCTGGTAGTATTTGGCAGG	240		
QY	241	ACCAGATAAGCTGCTTCTGTATGAGATATTACAGAGCAAAAGAGAACTCTCAAAATGTTT	300		
DB	241	ACCAGATAAGCTGCTTCTGTATGAGATATTACAGAGCAAAAGAGAACTCTCAAAATGTTT	300		
QY	301	ATCTCAAAATATAAGGGCGGTACAAAGCTTTGACAAGGCAAACTGGACCTGAGACTCCACA	360		
DB	301	ATCTCAAAATATAAGGGCGGTACAAAGCTTTGACAAGGCAAACTGGACCTGAGACTCCACA	360		
QY	361	ATGTTTCAGATCAAGGCAAGGGCCACATATCACTGTTTCATTCATTTATAAGGGCCCAAG	420		
DB	361	ATGTTTCAGATCAAGGCAAGGGCCACATATCACTGTTTCATTCATTTATAAGGGCCCAAG	420		
QY	421	GACTAGTTTCCCATGACCAAAATGAGTCTGACCTATCACTGCTGCTTCACTTCACTCAAC	480		
DB	421	GACTAGTTTCCCATGACCAAAATGAGTCTGACCTATCACTGCTGCTTCACTTCACTCAAC	480		
QY	481	CTGAAATTAACAGTAACTTCTAATAGAACAGAAAAATTTCTGGCATCATAAATTTGACCTGT	540		
DB	481	CTGAAATTAACAGTAACTTCTAATAGAACAGAAAAATTTCTGGCATCATAAATTTGACCTGT	540		
QY	541	CATCTATCAAGGTTTACCAGAACCTTAGGAGATGATTTTTCAGCTAACACTGGAATTT	600		
DB	541	CATCTATCAAGGTTTACCAGAACCTTAGGAGATGATTTTTCAGCTAACACTGGAATTT	600		
QY	601	CAACTACTAAGTATGATATCTGTCTGAAGAAATCTCAAAATTAATGTGACAGAACTGTACA	660		
DB	601	CAACTACTAAGTATGATATCTGTCTGAAGAAATCTCAAAATTAATGTGACAGAACTGTACA	660		
QY	661	AGTTTCTATCAGCTGCTGCTTTTTCAGTCCCTGAGACCAAAATGTGAGCGCTTTTGTG	720		
DB	661	AGTTTCTATCAGCTGCTGCTTTTTCAGTCCCTGAGACCAAAATGTGAGCGCTTTTGTG	720		

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Db 661 ACCTTCTATCAGCTTGCCTTTTTCAGTCCCTGAAGCACAATGTGAGCGTCTTTTGTG 720
Qy 721 CCTGAACTGGAGACATCGAGATGCTGCTCTCCCTACCTTTCAATATAGATGCAAC 780
Db 721 CCTGAACTGGAGACATCGAGATGCTGCTCTCCCTACCTTTCAATATAGATGCAAC 780
Qy 781 CTAAGGATAAAGACCTTGAACAAGGCGACCTTCTCGGATTTGGGCTGCTACTTGTATGT 840
Db 781 CTAAGGATAAAGACCTTGAACAAGGCGACCTTCTCGGATTTGGGCTGCTACTTGTATGT 840
Qy 841 TTGTTGTTTTTGTGGGATGCTGCTTTTAAACACCTTAAGGAAAGGAAGCAAGCAGC 900
Db 841 TTGTTGTTTTTGTGGGATGCTGCTTTTAAACACCTTAAGGAAAGGAAGCAAGCAGC 900
Qy 901 CTGGCCCTCTCATGATGTGAACCAACATCAAAAGGGAGAGAGAGAGAGAGAGAGAGAG 960
Db 901 CTGGCCCTCTCATGATGTGAACCAACATCAAAAGGGAGAGAGAGAGAGAGAGAGAGAG 960
Qy 961 ACAGAAAGATPACATACACCTGACCTGAGAGATCTGATGAAGCCAGTGTGTAAATTT 1020
Db 961 ACAGAAAGATPACATACACCTGACCTGAGAGATCTGATGAAGCCAGTGTGTAAATTT 1020
Qy 1021 TGAAGACAGCTCAGGGGACAAAATCAGTAGGAAATGTTGGCTGCTGACAAT 1080
Db 1021 TGAAGACAGCTCAGGGGACAAAATCAGTAGGAAATGTTGGCTGCTGACAAT 1080

RESULT 2
US-09-303-040-5
; Sequence 5, Application US/09303040
; GENERAL INFORMATION:
; APPLICANT: Winslow, Barbara J.
; TITLE OF INVENTION: Recombinant Virus Expressing Foreign DNA Encoding
; TITLE OF INVENTION: Feline CD80, Feline CD86, Feline CD28, Feline CTLA-4 or
; TITLE OF INVENTION: Feline Interferon-gamma And Uses Thereof
; FILE REFERENCE: 54957-B
; CURRENT APPLICATION NUMBER: US/09/303,040
; PRIOR FILING DATE: 1999-04-30
; PRIOR APPLICATION NUMBER: 60/083,870
; NUMBER OF SEQ ID NOS: 82
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; TYPE: DNA
; LENGTH: 1080
; ORGANISM: feline CD86
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (63)..(1052)
US-09-303-040-5

Query Match 100.0%; Score 1080; DB 20; Length 1080;
Best Local Similarity 100.0%; Pred. No. 2.4e-298;
Matches 1080; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTTCTGTGTTCTCGGGAATGTCAGTGTATATACATCTGCTCTCGGAGCTGCAGT 60
Db 1 GTTCTGTGTTCTCGGGAATGTCAGTGTATATACATCTGCTCTCGGAGCTGCAGT 60
Qy 61 GGATGGGCATTTGTGACAGCATTATGGGACTGAGTCACACTCTCTCTGTGATGGCCCTCC 120
Db 61 GGATGGGCATTTGTGACAGCATTATGGGACTGAGTCACACTCTCTCTGTGATGGCCCTCC 120
Qy 121 TGTCTCTGGTGTCTTCATGAAGAGTCAGCATTATTTCAACAAGATCGAGAACTGC 180
Db 121 TGTCTCTGGTGTCTTCATGAAGAGTCAGCATTATTTCAACAAGATCGAGAACTGC 180
Qy 181 CATGCCATTTTCAAACTCTCAAAACATAGCTGAGCTGGTAGTATTTTGGCAGG 240
Db 181 CATGCCATTTTCAAACTCTCAAAACATAGCTGAGCTGGTAGTATTTTGGCAGG 240
Qy 241 ACCAGGATAAGCTGTTCTGTATGATATTCAGAGGGCAAGAGAACCCCTCAAAATGTTTC 300
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Db 241 ACCAGGATAAGCTGTTCTGTATGATATTCAGAGGGCAAGAGAACCCCTCAAAATGTTTC 300
Qy 301 ATCTCAAAATATAAGGCGCGTACAAGCTTTTGACAAGGACAACCTGACCTTGAGACTCCACA 360
Db 301 ATCTCAAAATATAAGGCGCGTACAAGCTTTTGACAAGGACAACCTGAGACTCCACA 360
Qy 361 ATGTTTCAGATCAAGGACAAGGGCACATATCAGTCTTTTCAATTAAGGGCCCAAG 420
Db 361 ATGTTTCAGATCAAGGACAAGGGCACATATCAGTCTTTTCAATTAAGGGCCCAAG 420
Qy 421 GACTAGTTCCTCATGACCAAAATGAGTTCGACCTATCAGTGTCTTAAGTCAAGTCAAC 480
Db 421 GACTAGTTCCTCATGACCAAAATGAGTTCGACCTATCAGTGTCTTAAGTCAAGTCAAC 480
Qy 481 CTGAATAAACAAGTAACTTCTTAATAGAACAGAAATCTGGCATCATAAATTTGACCTGCT 540
Db 481 CTGAATAAACAAGTAACTTCTTAATAGAACAGAAATCTGGCATCATAAATTTGACCTGCT 540
Qy 541 CATCTATACAAGGTTACCCAGAACCTTAAGGAGATGTATTTTTCAGCTTAAACACATGAGAAAT 600
Db 541 CATCTATACAAGGTTACCCAGAACCTTAAGGAGATGTATTTTTCAGCTTAAACACATGAGAAAT 600
Qy 601 CAACTACTAAGTATGATGATCTGATGAAGAAATCTCAAAATATATGTGACAGAACTGTACA 660
Db 601 CAACTACTAAGTATGATGATCTGATGAAGAAATCTCAAAATATATGTGACAGAACTGTACA 660
Qy 661 AGTTTTCTATCAGCTTGCCTTTTTCAGTCCCTGAAGCACAATGTGAGCGTCTTTTGTG 720
Db 661 AGTTTTCTATCAGCTTGCCTTTTTCAGTCCCTGAAGCACAATGTGAGCGTCTTTTGTG 720
Qy 721 CCTGAAACTGGAGACATCGGAGATGCTGCTCTCCCTACCTTTCAATATAGATGCAAC 780
Db 721 CCTGAAACTGGAGACATCGGAGATGCTGCTCTCCCTACCTTTCAATATAGATGCAAC 780
Qy 781 CTAAGGATAAAGACCTGTAACCAAGGCGACCTTCTCTGGATTTGGGCTGCTACTTGTATGT 840
Db 781 CTAAGGATAAAGACCTGTAACCAAGGCGACCTTCTCTGGATTTGGGCTGCTACTTGTATGT 840
Qy 841 TTGTTGTTTTTGTGGGATGCTGCTTTTAAACACATTAAGGAAAGGAAGAGAGAGAGAG 900
Db 841 TTGTTGTTTTTGTGGGATGCTGCTTTTAAACACATTAAGGAAAGGAAGAGAGAGAGAG 900
Qy 901 CTGGCCCTCTCATGATGTGAACCAACCTCAAAAGGGAGAGAGAGAGAGAGAGAGAGAG 960
Db 901 CTGGCCCTCTCATGATGTGAACCAACCTCAAAAGGGAGAGAGAGAGAGAGAGAGAGAG 960
Qy 961 ACAGAAAGATPACATACACCTGACCTGAGAGATCTGATGAAGCCAGTGTGTAAATTT 1020
Db 961 ACAGAAAGATPACATACACCTGACCTGAGAGATCTGATGAAGCCAGTGTGTAAATTT 1020
Qy 1021 TGAAGACAGCTCAGGGGACAAAATCAGTAGGAAATGTTGGCTGCTGACAAT 1080
Db 1021 TGAAGACAGCTCAGGGGACAAAATCAGTAGGAAATGTTGGCTGCTGACAAT 1080

RESULT 3
US-09-303-510-5
; Sequence 5, Application US/09303510A
; GENERAL INFORMATION:
; APPLICANT: Collisson, Ellen W.
; APPLICANT: Hash, Stephen M.
; APPLICANT: Choi, InSoo
; TITLE OF INVENTION: Feline CD80, Feline CD86, Feline CD28, Feline CD28, and Feline
; TITLE OF INVENTION: CTLA-4 Nucleic Acid and Polypeptides
; FILE REFERENCE: 54954
; CURRENT APPLICATION NUMBER: US/09/303,510A
; CURRENT FILING DATE: 1999-04-30
; EARLIER APPLICATION NUMBER: 60/083,869
; EARLIER FILING DATE: 1998-05-01
; NUMBER OF SEQ ID NOS: 83
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
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; LENGTH: 1080
; TYPE: DNA
; ORGANISM: Feline
US-09-303-510-5

Query Match 100.0%; Score 1080; DB 20; Length 1080;
Best Local Similarity 100.0%; Pred. No. 2.4e-298;
Matches 1080; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTTCTGTGTTCTCGGGAATGTCACTGAGCTTATACATCTGTCTCTGGAGCTGCAGT 60
Db 1 GTTCTGTGTTCTCGGGAATGTCACTGAGCTTATACATCTGTCTCTGGAGCTGCAGT 60
QY 61 GGATGGCAATTTGTGACAGCACTATGCGACTGAGTCACACTCTCTTGATGGCCCTCC 120
Db 61 GGATGGCAATTTGTGACAGCACTATGCGACTGAGTCACACTCTCTTGATGGCCCTCC 120
QY 121 TGCTCTCTGGTGTCTTCCATGAAGAGTCAAGCATATTTCAACAAGACTGGAGAACTGC 180
Db 121 TGCTCTCTGGTGTCTTCCATGAAGAGTCAAGCATATTTCAACAAGACTGGAGAACTGC 180
QY 181 CATGCCATTTTACAACCTCTCAAAACATAAGCCTGAGCTGTAGTATTTTGGCAGG 240
Db 181 CATGCCATTTTACAACCTCTCAAAACATAAGCCTGAGCTGTAGTATTTTGGCAGG 240
QY 241 ACCAGGATAAGCTGGTTCGTATGAGATATTCAGAGGCAAGAACCCCTCAAAATGTTT 300
Db 241 ACCAGGATAAGCTGGTTCGTATGAGATATTCAGAGGCAAGAACCCCTCAAAATGTTT 300
QY 301 ATCTCAAAATATAAGGCCCGTACAACTTTTACAAGGACAACTGGACCTGAGACTCCACA 360
Db 301 ATCTCAAAATATAAGGCCCGTACAACTTTTACAAGGACAACTGGACCTGAGACTCCACA 360
QY 361 ATGTTCCAGATCAAGGACCAAGGACATATCATGTTTTCATTCATTAAGAGGCCCAAG 420
Db 361 ATGTTCCAGATCAAGGACCAAGGACATATCATGTTTTCATTCATTAAGAGGCCCAAG 420
QY 421 GACTAGTCCCATGACCAAAATGAGTTCGACCTATCAGTGTCTGCTTAACCTTCAGTCAAC 480
Db 421 GACTAGTCCCATGACCAAAATGAGTTCGACCTATCAGTGTCTGCTTAACCTTCAGTCAAC 480
QY 481 CTGAATAACAGTAACTTCTAATAGAACAGAAATTTCTGSCATCATATAATTTGACCTGCT 540
Db 481 CTGAATAACAGTAACTTCTAATAGAACAGAAATTTCTGSCATCATATAATTTGACCTGCT 540
QY 541 CATCTATACAGGTTTACCCAGAACCTTAAGAGATGTATTTTCAGCTTAAACACTGAGAAAT 600
Db 541 CATCTATACAGGTTTACCCAGAACCTTAAGAGATGTATTTTCAGCTTAAACACTGAGAAAT 600
QY 601 CAACTACTAAGTATGATCTGTCATGAAGAAATCTCAAAATATGTGACAGAACTGTACA 660
Db 601 CAACTACTAAGTATGATCTGTCATGAAGAAATCTCAAAATATGTGACAGAACTGTACA 660
QY 661 ACGTTTCTATCAGCTTGCCTTTTTCAGTCCCTGAAGCACACAATGTGAGCGTCTTTTGTG 720
Db 661 ACGTTTCTATCAGCTTGCCTTTTTCAGTCCCTGAAGCACACAATGTGAGCGTCTTTTGTG 720
QY 721 CCCTGAAACTGGAGACACTGGAGATGCTGCTCTCCCTACCTTTCATATAGATGCAAC 780
Db 721 CCCTGAAACTGGAGACACTGGAGATGCTGCTCTCCCTACCTTTCATATAGATGCAAC 780
QY 781 CTAAGGATAAAGACCTGTAACAGGACCTTCTCTGGATTGGCGGTGTACTTGTAAATGT 840
Db 781 CTAAGGATAAAGACCTGTAACAGGACCTTCTCTGGATTGGCGGTGTACTTGTAAATGT 840
QY 841 TTGTTGTTTTTTGTGGATGGTGTCTCTTTTAAACACTAAGGAAAGGAAAGAAAGCAGC 900
Db 841 TTGTTGTTTTTTGTGGATGGTGTCTCTTTTAAACACTAAGGAAAGGAAAGAAAGCAGC 900
QY 901 CTGGCCCTCTCATGATGTGAACCATCAAAAGGGAGAGAAAAGAGGCAACAGACCA 960
Db 901 CTGGCCCTCTCATGATGTGAACCATCAAAAGGGAGAGAAAAGAGGCAACAGACCA 960

QY 961 ACAGAAAGAGTACCATACACAGTACCTGAGAGATCTGATGAAGCCAGTGTGTTAAACATTT 1020
Db 961 ACAGAAAGAGTACCATACACAGTACCTGAGAGATCTGATGAAGCCAGTGTGTTAAACATTT 1020
QY 1021 TGAAGACAGCCTCAGGGGACAAAAATCAGTAGGAAAAATGGTGGCTTGGCGTCTGACAAT 1080
Db 1021 TGAAGACAGCCTCAGGGGACAAAAATCAGTAGGAAAAATGGTGGCTTGGCGTCTGACAAT 1080

RESULT 4

US-09-062-597A-25
; Sequence 25, Application US/09062597A
; GENERAL INFORMATION:
; APPLICANT: Sim, Gek-Ke
; APPLICANT: Yang, Shumin
; APPLICANT: Sellins, Karen S.
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY
; TITLE OF INVENTION: PROTEINS,NUCLEIC ACID MOLECULES, AND
; TITLE OF INVENTION: USES THEREOF
; NUMBER OF SEQUENCES: 29
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Carol Talkington Verser, Ph.D.
; ADDRESSEE: Heska Corporation
; STREET: 1825 Sharp Point Drive
; CITY: Fort Collins
; STATE: Colorado
; COUNTRY: USA
; ZIP: 80525
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: Windows 95
; SOFTWARE: WordPerfect for Windows, Version 7.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/062,597A
; FILING DATE: 17-APR-1998
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Verser, Carol Talkington
; REGISTRATION NUMBER: 37,459
; REFERENCE/DOCKET NUMBER: IM-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 970/493-7272
; TELEFAX: 970/484-9505
; INFORMATION FOR SEQ ID NO: 25:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2830 nucleotides
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 179..1174
US-09-062-597A-25

Query Match 96.4%; Score 1041.2; DB 16; Length 2830;
Best Local Similarity 99.7%; Pred. No. 5.4e-287;
Matches 1043; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 GTTCTGTGTTCTCGGGAATGTCACTGAGCTTATACATCTGTCTCTGGAGCTGCAGT 60
Db 117 GTTCTGTGTTCTCGGGAATGTCACTGAGCTTATACATCTGTCTCTGGAGCTGCAGT 176
QY 61 GGATGGCAATTTGTGACAGCACTATGGGACTGAGTCAGTCACTCTCTTGTGATGGCCCTCC 120
Db 177 GGATGGCAATTTGTGACAGCACTATGGGACTGAGTCAGTCACTCTCTTGTGATGGCCCTCC 236
QY 121 TGCTCTCTGGTGTCTTCCATGAAGAGTCAAGCATATTTTCAACAGACTGGAGAACTGC 180
Db 237 TGCTCTCTGGTGTCTTCCATGAAGAGTCAAGCATATTTTCAACAGACTGGAGAACTGC 296
QY 181 CATGCCATTTTACAAACTCTCAAAACATAAGCCCTGAGCTGGTGTAGTATTTTGGCAGG 240

297 CATGCCATTTTCAAACTCTCAAAACATAAGCCTGGATGAGCTGGTAGTATTTTGGCAGG 356
241 ACCAGGATAAGCTGGTTCTGTATGAGATATTTAGAGGCAAGAGAACCTTCAAAATGTTTC 300
357 ACCAGGATAAGCTGGTTCTGTATGAGATATTTAGAGGCAAGAGAACCTTCAAAATGTTTC 416
301 ATCTCAAAATAAAGGCGGTACAGCTTTGACAAGGACAACTGGACCTTGAGACTCCACA 360
417 ATCTCAAAATAAAGGCGGTACAGCTTTGACAAGGACAACTGGACCTTGAGACTCCACA 476
361 ATGTTTCAGATCAAGGACAAAGGACATATCACTGTTTTCATTATTAAGAGGCCCAAG 420
477 ATGTTTCAGATCAAGGACAAAGGACATATCACTGTTTTCATTATTAAGAGGCCCAAG 536
421 GACTAGTTCCTCATGACCAAAATGAGTTCTGACCTTATCAGTGTCTGCTTAACCTCAGTCAAC 480
537 GACTAGTTCCTCATGACCAAAATGAGTTCTGACCTTATCAGTGTCTGCTTAACCTCAGTCAAC 596
481 CTGAAATAACAGTAACCTTCTTAATAGAACAGAAATTTCTGGCATCATAAATTTGACCTGCT 540
597 CTGAAATAACAGTAACCTTCTTAATAGAACAGAAATTTCTGGCATCATAAATTTGACCTGCT 656
541 CATCTATACAGGTTACCCAGAACCTTAAGAGATGTATTTTCAGCTAAACACTTGAAAT 600
657 CATCTATACAGGTTACCCAGAACCTTAAGAGATGTATTTTCAGCTAAACACTTGAAAT 716
601 CAACTACTAGTATGATGATGCTCATGAAGAAATCTCAAAATATGTCAGAGACTGTACA 660
717 CAACTACTAGTATGATGATGCTCATGAAGAAATCTCAAAATATGTCAGAGACTGTACA 776
661 ACCTTTCTATCAGCTTGCCTTTTTCAGTCCCTGAAGCACAAATGTGAGCGTCTTTTGTG 720
777 ACCTTTCTATCAGCTTGCCTTTTTCAGTCCCTGAAGCACAAATGTGAGCGTCTTTTGTG 836
721 CCTGAAACTGGAGACACTGGAGATGCTGCTCTCCCTA CTTTCAATATAGATGCAAC 780
837 CCTGAAACTGGAGACACTGGAGATGCTGCTCTCCCTA CTTTCAATATAGATGCAAC 896
781 CTAAGGATAAAGACCTTGACCAAGGACCTTCTCTCGGATGCGGCTGACTGTATGT 840
897 CTAAGGATAAAGACCTTGACCAAGGACCTTCTCTCGGATGCGGCTGACTGTATGT 956
841 TTGTTGTTTTTTGCGGATGCTGCTTTTAAACACTTAAGGAAAGGAAAGGAAAGCAGC 900
957 TTGTTGTTTTTTGCGGATGCTGCTTTTAAACACTTAAGGAAAGGAAAGGAAAGCAGC 1016
901 CTGCGCCCTCTCATGAATGTGAACCAATCAAAAGGAGAGAAAGAGACAAACAGACCA 960
1017 CTGCGCCCTCTCATGAATGTGAACCAATCAAAAGGAGAGAAAGAGACAAACAGACCA 1076
961 ACDAAGAGTACCATACCGTACCTGAGAGATCTGATGAGCCCGAGTGTGTTAACTTT 1020
1077 ACDAAGAGTACCATACCGTACCTGAGAGATCTGATGAGCCCGAGTGTGTTAACTTT 1136
1021 TGAAGACAGCCTCAGGGGACAAAAT 1046
1137 TGAAGACAGCCTCAGGGGACAAAAT 1162

RESULT 5

US-09-062-597A-27/c

; Sequence 27, Application US/09062597A

; GENERAL INFORMATION:

; APPLICANT: Sim, Gek-Ke

; APPLICANT: Yang, Shumin

; APPLICANT: Sellins, Karen S.

; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY

; TITLE OF INVENTION: PROTEINS, NUCLEIC ACID MOLECULES, AND

; TITLE OF INVENTION: USES THEREOF

; NUMBER OF SEQUENCES: 29

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Carol Talkington Verser, Ph.D.

ADDRESSEE: Heska Corporation
STREET: 1825 Sharp Point Drive
CITY: Fort Collins
STATE: Colorado
COUNTRY: USA
ZIP: 80525
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: Windows 95
SOFTWARE: WordPerfect for Windows, Version 7.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/062,597A
FILING DATE: 17-APR-1998
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: Verser, Carol Talkington
REGISTRATION NUMBER: 37,459
REFERENCE/DOCKET NUMBER: IM-1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 970/493-7272
TELEFAX: 970/484-9505
INFORMATION FOR SEQ ID NO: 27:
SEQUENCE CHARACTERISTICS:
LENGTH: 2830 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
US-09-062-597A-27

Query Match 96.4%; Score 1041.2; DB 16; Length 2830;
Best Local Similarity 99.7%; Pred. No. 5.4e-287;
Matches 1043; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 GTTTCGTGTTCTCTCGGGAATGTCACTGAGCTTATACATCTGGTCTCTGGAGCTGCAGT 60
Db 2714 GTTTCGTGTTCTCTCGGGAATGTCACTGAGCTTATACATCTGGTCTCTGGAGCTGCAGT 2655
QY 61 GGATGGGCAATTTGTGACAGCACTATGGGACTGAGTCACTCTCTCTGTGATGGCCCTCC 120
Db 2654 GGATGGGCAATTTGTGACAGCACTATGGGACTGAGTCACTCTCTCTGTGATGGCCCTCC 2595
QY 121 TGTCTCTCTGCTGTTCTTCCATGAAGAGTCAAGCATATTTCAACAAGACTGGAGAACTGC 180
Db 2594 TGTCTCTCTGCTGTTCTTCCATGAAGAGTCAAGCATATTTCAACAAGACTGGAGAACTGC 2535
QY 181 CATGCCATTTTCAAACTCTCAAAAACATAAAGCCTGGATGAGCTGGTAGTATTTTGGCAGG 240
Db 2534 CATGCCATTTTCAAACTCTCAAAAACATAAAGCCTGGATGAGCTGGTAGTATTTTGGCAGG 2475
QY 241 ACCAGGATAAGCTGGTTCTGTATGAGATATTCAGAGGCAAGAGAACCTTCAAAATGTTTC 300
Db 2474 ACCAGGATAAGCTGGTTCTGTATGAGATATTCAGAGGCAAGAGAACCTTCAAAATGTTTC 2415
QY 301 ATCTCAAAATAAAGGCGCGTCAAGCTTTGACAAGGACAACTGGACCTTGAGACTCCACA 360
Db 2414 ATCTCAAAATAAAGGCGCGTCAAGCTTTGACAAGGACAACTGGACCTTGAGACTCCACA 2355
QY 361 ATGTTTCAGATCAAGGACAAAGGCAATATCACTGTTTTCATTATTAAGAGGCCCAAG 420
Db 2354 ATGTTTCAGATCAAGGACAAAGGCAATATCACTGTTTTCATTATTAAGAGGCCCAAG 2295
QY 421 GACTAGTTCCTCATGACCAAAATGAGTTCTGACCTATCAGTGTCTGCTTAACCTCAGTCAAC 480
Db 2294 GACTAGTTCCTCATGACCAAAATGAGTTCTGACCTATCAGTGTCTGCTTAACCTCAGTCAAC 2235
QY 481 CTGAAATAACAGTAACTTCTTAATAGAACAGAAATTTCTGGCATCATAAATTTGACCTGCT 540
Db 2234 CTGAAATAACAGTAACTTCTTAATAGAACAGAAATTTCTGGCATCATAAATTTGACCTGCT 2175
QY 541 CATCTATACAGGTTTACCAGAACCTTAAGGAGATGTATTTTTCAGCTTAAACACTTGAAAT 600

Db 2174 CATCTATACAAGTTTACCAGAACCTAAGGAGATGTAATTTTCAGCTAAACACTGAGAAAT 2115
QY
601 CAACTACTAAGTATGATCTGTCATGCAAGAAATCTCAAAATATATGTGACAGAACTGTGACA 560
Db 2114 CAACTACTAAGTATGATCTGTCATGCAAGAAATCTCAAAATATATGTGACAGAACTGTGACA 2055
QY 661 ACGTTTCTATCAGTTGCGCTTTTTCAGTCCCTGAAGCACAATGTGAGCGTCTTTTGTG 720
Db 2054 ACGTTTCTATCAGTTGCGCTTTTTCAGTCCCTGAAGCACAATGTGAGCGTCTTTTGTG 1995
QY 721 CCCTGAACTGGAGACACTGGAGATGCTCTCTCCCTACCTTTCAATATAGATGACACAAC 780
Db 1994 CCCTGAACTGGAGACACTGGAGATGCTCTCTCCCTACCTTTCAATATAGATGACACAAC 1935
QY 781 CTAAGGATAAAGACCCCTGAACAGGCGCACTTCTCTGGAATGGCGCTGTACTTGAATGT 840
Db 1934 CTAAGGATAAAGACCCCTGAACAGGCGCACTTCTCTGGAATGGCGCTGTACTTGAATGT 1875
QY 841 TTGTTGTTTTTGTGGATGGTGTCTCTTTAAACACTAAGGAAAGGAAAGAAAGCAGC 900
Db 1874 TTGTTGTTTTTGTGGATGGTGTCTTTAAACACTAAGGAAAGGAAAGAAAGCAGC 1815
QY 901 CTGCGCCCTCTCATGAATGTGAACCATCAAAAGGAGAGAAAGAGACAAACAGACCA 960
Db 1814 CTGCGCCCTCTCATGAATGTGAACCATCAAAAGGAGAGAAAGAGACAAACAGACCA 1755
QY 961 ACGAAGAGTACCATACCGTACCTGAGAGATCTGATGAAGCCAGTGTGTTAACTTT 1020
Db 1754 ACGAAGAGTACCATACCGTACCTGAGAGATCTGATGAAGCCAGTGTGTTAACTTT 1695
QY 1021 TGAAGCAGCGCTCAGGGGACAAAAT 1046
Db 1694 TGAAGCAGCGCTCAGGGGACAAAAGT 1669

RESULT 6

US-09-646-561-25
; Sequence 25, Application US/09646561
; GENERAL INFORMATION:
; APPLICANT: Sim, Gek-Kee
; APPLICANT: Yang, Shumin
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES, AND USES THEREOF
; FILE REFERENCE: IM-1-C1-PCT
; CURRENT APPLICATION NUMBER: US/09/646,561
; CURRENT FILING DATE: 2000-09-19
; PRIOR APPLICATION NUMBER: 60/078,765
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 09/062,597
; PRIOR FILING DATE: 1998-04-17
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 25
; LENGTH: 2830
; TYPE: DNA
; ORGANISM: Felis catus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (179)..(1174)
US-09-646-561-25

Query Match 96.4%; Score 1041.2; DB 29; Length 2830;
Best Local Similarity 99.7%; Pred. No. 5.4e-287;
Matches 1043; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 GTTTCCTGTTCTCGGGAATGTCACTGAGCTTATACATCTGGTCTCTGGAGCTGCAGT 60
Db 117 GTTTCCTGTTCTCGGGAATGTCACTGAGCTTATACATCTGGTCTCTGGAGCTGCAGT 176
QY 61 GGATGGCAATTTGTGACAGCACTTATGGACTGAGTCACTCTCTTGTGATGGCCCTCC 120
Db 177 GGATGGCAATTTGTGACAGCACTATGGACTGAGTCACTCTCTTGTGATGGCCCTCC 236

QY 121 TGCTCTCTGTTGTTTCTTCCATGAAGAGTCAAGCATATTTTCAACAAGACTGGAGAACTGC 180
Db 237 TGCTCTCTGTTGTTTCTTCCATGAAGAGTCAAGCATATTTTCAACAAGACTGGAGAACTGC 296
QY 181 CATGCCATTTTACAAAATCTCTCAAAACATAAAGCTGGATGAGCTGGTAGTATTTTGGCAGG 240
Db 297 CATGCCATTTTACAAAATCTCTCAAAACATAAAGCTGGATGAGCTGGTAGTATTTTGGCAGG 356
QY 241 ACCAGGATAAGCTGGTCTGTATGAGATATTCAGAGGCAAAAGAGAACCTCAAAATGTTTC 300
Db 357 ACCAGGATAAGCTGGTCTGTATGAGATATTCAGAGGCAAAAGAGAACCTCAAAATGTTTC 416
QY 301 ATCTCAAAATATAAGGCGCGTACAAGCTTTTGACAAGGACAACCTGGACCTCGAGACTCCACA 360
Db 417 ATCTCAAAATATAAGGCGCGTACAAGCTTTTGACAAGGACAACCTGGACCTCGAGACTCCACA 476
QY 361 ATGTTTCAGATCAAGGACAAGGCGCATAATCATCTGTCTTCATTATTAAGGGGCCAAAG 420
Db 477 ATGTTTCAGATCAAGGACAAGGCGCATAATCATCTGTCTTCATTATTAAGGGGCCAAAG 536
QY 421 GACTAGTTCCCATGCAACCAAAATGAGTCTGACCTATCAGTGTCTTCAACTTCAGTCAAC 480
Db 537 GACTAGTTCCCATGCAACCAAAATGAGTCTGACCTATCAGTGTCTTCAACTTCAGTCAAC 596
QY 481 CTGAAATATAACAGTAACTTTCTAATAGAACAGAAAATTTCTGGCATCATATAATTTGACCTGCT 540
Db 597 CTGAAATATAACAGTAACTTTCTAATAGAACAGAAAATTTCTGGCATCATATAATTTGACCTGCT 656
QY 541 CATCTATACAGGTTTACCAGAACCTTAAGGAGATGTATTTTTCAGCTAAACACTGAGAATT 600
Db 657 CATCTATACAGGTTTACCAGAACCTTAAGGAGATGTATTTTTCAGCTAAACACTGAGAATT 716
QY 601 CAACTACTAAGTATGATCTGTCATGAAGAAATCTCAAAATAATGTGACAGAACTGTGACA 660
Db 717 CAACTACTAAGTATGATCTGTCATGAAGAAATCTCAAAATAATGTGACAGAACTGTGACA 776
QY 661 ACGTTTCTATCAGCTTGGCTTTTTCAGTCCCTGAAAGCACAATGTGAGCGTCTTTTGTG 720
Db 777 ACGTTTCTATCAGCTTGGCTTTTTCAGTCCCTGAAAGCACAATGTGAGCGTCTTTTGTG 836
QY 721 CCCTGAACTGGAGACACTGGAGATGCTCTCCCTACCTTTCAATATAGATGACACAAC 780
Db 837 CCCTGAACTGGAGACACTGGAGATGCTCTCCCTACCTTTCAATATAGATGACACAAC 896
QY 781 CTAAGGATAAAGACCTGAAACAGGCGCACTTCTCTGGATTGCGGCTGTACTTGTAAATGT 840
Db 897 CTAAGGATAAAGACCTGAAACAGGCGCACTTCTCTGGATTGCGGCTGTACTTGTAAATGT 956
QY 841 TTGTTGTTTTTGTGGATGGTGTCTTTTAAACACTAAGGAAAGGAAAGAAAGCAGC 900
Db 957 TTGTTGTTTTTGTGGATGGTGTCTTTTAAACACTAAGGAAAGGAAAGAAAGCAGC 1016
QY 901 CTGGCCCTCTCATGAATGTGAACCATCAAAAGGAGGAGAAAGAGACCAACAGACCA 960
Db 1017 CTGGCCCTCTCATGAATGTGAACCATCAAAAGGAGGAGAAAGAGACCAACAGACCA 1076
QY 961 ACGAAGAGTACCATACCGTACCTGAGAGATCTGATGAAGCCAGTGTGTTAACTTT 1020
Db 1077 ACGAAGAGTACCATACCGTACCTGAGAGATCTGATGAAGCCAGTGTGTTAACTTT 1136
QY 1021 TGAAGCAGCGCTCAGGGGACAAAAT 1046
Db 1137 TGAAGCAGCGCTCAGGGGACAAAAGT 1162

RESULT 7

US-09-646-561-27/c
; Sequence 27, Application US/09646561
; GENERAL INFORMATION:
; APPLICANT: Sim, Gek-Kee
; APPLICANT: Yang, Shumin
; APPLICANT: Sellins, Karen S.

;; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC
;; FILE OF INVENTION: ACID MOLECULES, AND USES THEREOF
;; FILE REFERENCE: IM-1-C1-PCT
;; CURRENT APPLICATION NUMBER: US/09/646,561
;; CURRENT FILING DATE: 2000-09-19
;; PRIOR APPLICATION NUMBER: 60/078,765
;; PRIOR FILING DATE: 1998-03-19
;; PRIOR APPLICATION NUMBER: 09/062,597
;; PRIOR FILING DATE: 1998-04-17
;; NUMBER OF SEQ ID NOS: 65
;; SOFTWARE: PatentIn Ver. 2.0
;; SEQ ID NO 27
;; LENGTH: 2830
;; TYPE: DNA
;; ORGANISM: Felis catus
US-09-646-561-27

Query Match 96.4%; Score 1041.2; DB 29; Length 2830;
Best Local Similarity 99.7%; Pred. No. 5.4e-287;
Matches 1043; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 GTTCTGTGTTCTCTCGGAATGTCACCTGAGCTTATACATCTGTCTCTGGGAGCTGAGT 60
DB 2714 GTTCTGTGTTCTCTCGGAATGTCACCTGAGCTTATACATCTGTCTCTGGGAGCTGAGT 2655
QY 61 GGATGGGCAATTGTGACAGCACTATGGGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT 120
DB 2654 GGATGGGCAATTGTGACAGCACTATGGGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT 2595
QY 121 TGCTCTGTGTTCTTCTCATGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT 180
DB 2594 TGCTCTGTGTTCTTCTCATGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT 2535
QY 181 CATGCCAATTTTCAAACTCTCAAAACATAGCTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT 240
DB 2534 CATGCCAATTTTCAAACTCTCAAAACATAGCTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT 2475
QY 241 ACCAGGATAGCTGTGTTCTGTATGAGATTTTCAAGGCAAGGCAAGGCAAGGCAAGGCAAG 300
DB 2474 ACCAGGATAGCTGTGTTCTGTATGAGATTTTCAAGGCAAGGCAAGGCAAGGCAAGGCAAG 2415
QY 301 ATCTCAAAATATAGGCGGTGACAGCTTTTGAAGGCAAGGCAAGGCAAGGCAAGGCAAGGCA 360
DB 2414 ATCTCAAAATATAGGCGGTGACAGCTTTTGAAGGCAAGGCAAGGCAAGGCAAGGCAAGGCA 2355
QY 361 ATGTTCCAGATCAAGGCAAGGCAAGGCAAGGCAAGGCAAGGCAAGGCAAGGCAAGGCAAG 420
DB 2354 ATGTTCCAGATCAAGGCAAGGCAAGGCAAGGCAAGGCAAGGCAAGGCAAGGCAAGGCAAG 2295
QY 421 GACTAGTTCCTCATGCAAGGCAAGGCAAGGCAAGGCAAGGCAAGGCAAGGCAAGGCAAGGCA 480
DB 2294 GACTAGTTCCTCATGCAAGGCAAGGCAAGGCAAGGCAAGGCAAGGCAAGGCAAGGCAAGGCA 2235
QY 481 CTGAATAACAGTAACTTCTATAGAACAGAAATTTCTGGCATCAPAAATTTGACCTGTCT 540
DB 2234 CTGAATAACAGTAACTTCTATAGAACAGAAATTTCTGGCATCAPAAATTTGACCTGTCT 2175
QY 541 CATCTATACAGGTTTACCCAGAACCTAAGAGATGTATTTTCAGCTTAAACACTTGAAATTT 600
DB 2174 CATCTATACAGGTTTACCCAGAACCTAAGAGATGTATTTTCAGCTTAAACACTTGAAATTT 2115
QY 601 CAACTACTAAGTATGATGATCTGTATGAAAGAAATTTCTCAAAATATGTCAGAGAACTGTACA 660
DB 2114 CAACTACTAAGTATGATGATCTGTATGAAAGAAATTTCTCAAAATATGTCAGAGAACTGTACA 2055
QY 661 AGTTTTCTATGAGTGTGCTTTTTCAGTCCCTGAGGCAAGGCAAGGCAAGGCAAGGCAAGGCA 720
DB 2054 AGTTTTCTATGAGTGTGCTTTTTCAGTCCCTGAGGCAAGGCAAGGCAAGGCAAGGCAAGGCA 1995
QY 721 CCTTGAACCTGAGGCAAGGCAAGGCAAGGCAAGGCAAGGCAAGGCAAGGCAAGGCAAGGCA 780
DB 1994 CCTTGAACCTGAGGCAAGGCAAGGCAAGGCAAGGCAAGGCAAGGCAAGGCAAGGCAAGGCA 1935

RESULT 8

US-10-790-396-25

;; Sequence 25, Application US/10790396
;; GENERAL INFORMATION:
;; APPLICANT: Yang, Shumin
;; APPLICANT: Sim, Gek-Kee
;; APPLICANT: Selling, Karen S.
;; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC
;; FILE OF INVENTION: ACID MOLECULES, AND USES THEREOF
;; FILE REFERENCE: IM-1-C1-PCT
;; CURRENT APPLICATION NUMBER: US/10/790,396
;; CURRENT FILING DATE: 2004-03-01
;; PRIOR APPLICATION NUMBER: US/09/646,561
;; PRIOR FILING DATE: 2000-09-19
;; PRIOR APPLICATION NUMBER: 60/078,765
;; PRIOR FILING DATE: 1998-03-19
;; PRIOR APPLICATION NUMBER: 09/062,597
;; PRIOR FILING DATE: 1998-04-17
;; NUMBER OF SEQ ID NOS: 65
;; SOFTWARE: PatentIn Ver. 2.0
;; SEQ ID NO 25
;; LENGTH: 2830
;; TYPE: DNA
;; ORGANISM: Felis catus
;; FEATURE:
;; NAME/KEY: CDS
;; LOCATION: (179)..(1174)
US-10-790-396-25

Query Match 96.4%; Score 1041.2; DB 62; Length 2830;
Best Local Similarity 99.7%; Pred. No. 5.4e-287;
Matches 1043; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 GTTCTGTGTTCTCTCGGAATGTCACCTGAGCTTATACATCTGTCTCTGGGAGCTGAGT 60
DB 117 GTTCTGTGTTCTCTCGGAATGTCACCTGAGCTTATACATCTGTCTCTGGGAGCTGAGT 176
QY 61 GGATGGGCAATTGTGACAGCACTATGGGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT 120
DB 177 GGATGGGCAATTGTGACAGCACTATGGGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT 236
QY 121 TGCTCTGTGTTCTTCTCATGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT 180
DB 237 TGCTCTGTGTTCTTCTCATGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT 296
QY 181 CATGCCAATTTTCAAACTCTCAAAACATAGCTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT 240
DB 297 CATGCCAATTTTCAAACTCTCAAAACATAGCTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT 356
QY 241 ACCAGGATAGCTGTGTTCTGTATGAGATTTTCAAGGCAAGGCAAGGCAAGGCAAGGCAAG 300
DB 357 ACCAGGATAGCTGTGTTCTGTATGAGATTTTCAAGGCAAGGCAAGGCAAGGCAAGGCAAG 416

QY 301 ATCTCAATATTAAGGCCCTCAAGCTTTGACAAGCAAACTGGACCCCTGAGACTCCACA 360
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|
|
Db 417 ATCTCAATATTAAGGCCCTCAAGCTTTGACAAGCAAACTGGACCCCTGAGACTCCACA 476
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|
|
QY 361 ATGTTTCAGATCAAGGACAGGCGACATATCACTGTTTCATTTCATTATTAAGGGCCCAAG 420
|
|
|
Db 477 ATGTTTCAGATCAAGGACAGGCGACATATCACTGTTTCATTTCATTATTAAGGGCCCAAG 536
|
|
|
QY 421 GACTAGTTCCTCATGACCAAAATGAGTTCTGACCTATCACTGCTGCTGCTGCTGCTGCTGCT 540
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|
|
Db 537 GACTAGTTCCTCATGACCAAAATGAGTTCTGACCTATCACTGCTGCTGCTGCTGCTGCTGCT 596
|
|
|
QY 481 CTGAAATAACAGTAACCTTCTAATAGAACAGAAATTTCTGGCATCAATAATTTGACTGCT 540
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|
|
Db 597 CTGAAATAACAGTAACCTTCTAATAGAACAGAAATTTCTGGCATCAATAATTTGACTGCT 656
|
|
|
QY 541 CATCTATACAAGTTTACCAGAACCTTAAGGAGATGTAATTTTCAGTCTAAACACTGA3AATT 600
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|
|
Db 657 CATCTATACAAGTTTACCAGAACCTTAAGGAGATGTAATTTTCAGTCTAAACACTGA3AATT 716
|
|
|
QY 601 CAACTAAGTATGATGATGTCATGAAGAAATCTCAAAATTAATATGACAGAACTGTACA 660
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|
|
Db 717 CAACTAAGTATGATGATGTCATGAAGAAATCTCAAAATTAATATGACAGAACTGTACA 776
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|
|
QY 661 ACGTTTCTATCAGCTTGCCTTTTTCAGTCCCTGAAGCACACAATGTGAGCGTCTTTTGTG 720
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|
|
Db 777 ACGTTTCTATCAGCTTGCCTTTTTCAGTCCCTGAAGCACACAATGTGAGCGTCTTTTGTG 836
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|
|
QY 721 CCCTGAACTGGAGACACTGGAGATGCTGCTCTCCCTACCTTTCAATATAGATGCACAA 780
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|
|
Db 837 CCCTGAACTGGAGACACTGGAGATGCTGCTCTCCCTACCTTTCAATATAGATGCACAA 896
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|
|
QY 781 CTAAGGATAAAGACCTGTAACAAAGGCCACTTCTCTGAGATGCGGCTGACTTTGAATGT 840
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|
|
Db 897 CTAAGGATAAAGACCTGTAACAAAGGCCACTTCTCTGAGATGCGGCTGACTTTGAATGT 956
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|
|
QY 841 TTGTTGTTTGTGGGATGGTCTCTTTTAAACACTAAGGAAAGGAGAGAAAGAGAGCAGC 900
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|
|
Db 957 TTGTTGTTTGTGGGATGGTCTCTTTTAAACACTAAGGAAAGGAGAGAAAGAGAGCAGC 1016
|
|
|
QY 901 CTGGCCCTCTCATGAATGTGAACCATCAAAAGGGAGAGAGAGAGAGAGAGAGAGAGAGC 960
|
|
|
Db 1017 CTGGCCCTCTCATGAATGTGAACCATCAAAAGGGAGAGAGAGAGAGAGAGAGAGAGAGC 1076
|
|
|
QY 961 ACAGAGAGTACATACACGTAACCTGAGAGATCTGATGAAGCCGAGTGTGTTAACTTT 1020
|
|
|
Db 1077 ACAGAGAGTACATACACGTAACCTGAGAGATCTGATGAAGCCGAGTGTGTTAACTTT 1136
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|
|
QY 1021 TGAAGACAGCCTCAGGGGACAAAAT 1046
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|
|
Db 1137 TGAAGACAGCCTCAGGGGACAAAAGT 1162
|
|
|

RESULT 9
US-10-790-396-27/c
; Sequence 27, Application US/10790396
; GENERAL INFORMATION:
; APPLICANT: Sim, Gek-Kee
; APPLICANT: Yang, Shumin
; APPLICANT: Sellins, Karen S.
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES, AND USES THEREOF
; FILE REFERENCE: IM-1-C1-PCT
; CURRENT APPLICATION NUMBER: US/10790,396
; CURRENT FILING DATE: 2004-03-01
; PRIOR APPLICATION NUMBER: US/09/646,561
; PRIOR FILING DATE: 2000-09-19
; PRIOR APPLICATION NUMBER: 60/078,765
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 09/062,597
; PRIOR FILING DATE: 1998-04-17
; NUMBER OF SEQ ID NOS: 65

; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 27
; LENGTH: 2830
; TYPE: DNA
; ORGANISM: Felis catus
US-10-790-396-27

Query Match 96.4%; Score 1041.2; DB 62; Length 2830;
Best Local Similarity 99.7%; Pred. No. 5.4e-287;
Matches 1043; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 1 GTTTCGTGTTCCCTCGGGAATGTCACTGAGCTTATACATCTGGTCTCTTGGAGCTGCAGT 60
|
|
|
Db 2714 GTTTCGTGTTCCCTCGGGAATGTCACTGAGCTTATACATCTGGTCTCTTGGAGCTGCAGT 2655
|
|
|
QY 61 GGATGGGCATTTGTGACAGCACTATGGGACGTGAGTCACACTCTCTTGTGATGCCCTCC 120
|
|
|
Db 2654 GGATGGGCATTTGTGACAGCACTATGGGACGTGAGTCACACTCTCTTGTGATGCCCTCC 2595
|
|
|
QY 121 TGCTCTCTGTTGTTTCTTCCATGAAGAGTCAAGCATATTTCAAACAAGACTGGAGAACTGC 180
|
|
|
Db 2594 TGCTCTCTGTTGTTTCTTCCATGAAGAGTCAAGCATATTTCAAACAAGACTGGAGAACTGC 2535
|
|
|
QY 181 CATGCCATTTTACAAACTCTCAAAACATAAAGCCTGGATGAGCTGGTAGTATTTTGGCAGG 240
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|
|
Db 2534 CATGCCATTTTACAAACTCTCAAAACATAAAGCCTGGATGAGCTGGTAGTATTTTGGCAGG 2475
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|
|
QY 241 ACCAGGATAAGCTGTTCTGTATGAGATATTCAGAGGCAAGAGAACCTCAAAATGTTTC 300
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|
|
Db 2474 ACCAGGATAAGCTGTTCTGTATGAGATATTCAGAGGCAAGAGAACCTCAAAATGTTTC 2415
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|
|
QY 301 ATCTCAAAATATAAGGGCCGTACAAGCTTTTGACAAGGACAACTGGACCCCTGAGACTCCACA 360
|
|
|
Db 2414 ATCTCAAAATATAAGGGCCGTACAAGCTTTTGACAAGGACAACTGGACCCCTGAGACTCCACA 2355
|
|
|
QY 361 ATGTTTCAGATCAAGGACAAAGGCCACATATCACTGTTTCACTCATTTATAAAGGCCCAAAG 420
|
|
|
Db 2354 ATGTTTCAGATCAAGGACAAAGGCCACATATCACTGTTTCACTCATTTATAAAGGCCCAAAG 2295
|
|
|
QY 421 GACTAGTTCCTCATGACCAAAATGAGTTCTGACCTATCACTGCTGCTGCTGCTGCTGCTGCT 480
|
|
|
Db 2294 GACTAGTTCCTCATGACCAAAATGAGTTCTGACCTATCACTGCTGCTGCTGCTGCTGCTGCT 2235
|
|
|
QY 481 CTGAAATAACAGTAACTTTCTAATAGAACAGAAAAATCTGGGCATCAATAATTTGACCTGCT 540
|
|
|
Db 2234 CTGAAATAACAGTAACTTTCTAATAGAACAGAAAAATCTGGGCATCAATAATTTGACCTGCT 2175
|
|
|
QY 541 CATCTATACAAGTTTACCAGAACCTTAAGGAGATGTAATTTTTCAGCTTAAACACTGAGAAAT 600
|
|
|
Db 2174 CATCTATACAAGTTTACCAGAACCTTAAGGAGATGTAATTTTTCAGCTTAAACACTGAGAAAT 2115
|
|
|
QY 601 CAACTACTAAGTATGATGATCTGATGAAGAAATCTCAAAATAATCTGACAGAACTGTACA 660
|
|
|
Db 2114 CAACTACTAAGTATGATGATCTGATGAAGAAATCTCAAAATAATCTGACAGAACTGTACA 2055
|
|
|
QY 661 ACGTTTCTATCAGCTTGCCTTTTTCAGTCCCTGAAAGCACACAATGTGAGCGTCTTTTGTG 720
|
|
|
Db 2054 ACGTTTCTATCAGCTTGCCTTTTTCAGTCCCTGAAAGCACACAATGTGAGCGTCTTTTGTG 1995
|
|
|
QY 721 CCCTGAAACTGGAGACACTGGAGATGCTGCTCTCCCTACCTTTTCAATATAGATGCACAA 780
|
|
|
Db 1994 CCCTGAAACTGGAGACACTGGAGATGCTGCTCTCCCTACCTTTTCAATATAGATGCACAA 1935
|
|
|
QY 781 CTAAGGATAAAGACCCCTGACCAAGGCCACTTCTCTGGAATTCGCGCTGCTGCTGCTGCTGCT 840
|
|
|
Db 1934 CTAAGGATAAAGACCCCTGACCAAGGCCACTTCTCTGGAATTCGCGCTGCTGCTGCTGCTGCT 1875
|
|
|
QY 841 TTGTTGTTTGTGGGATGGTCTCTTTTAAACACTAAGGAAAAAGGAGAGAGAGAGAGAGCAGC 900
|
|
|
Db 1874 TTGTTGTTTGTGGGATGGTCTCTTTTAAACACTAAGGAAAAAGGAGAGAGAGAGAGCAGC 1815
|
|
|
QY 901 CTGGCCCTCTCATGAATGTGAACCATCAAAAGGGAGAGAGAGAGAGAGAGAGAGAGAGCAGC 960
|
|
|

Db 1814 CTGCCCCCTCTCATGAATGTGAACCATCAAAAGGGAGAGAAAAGAGAGCAACAGACCA 1755
QY 961 ACAGAAAGAGTACCATACCTGACGATCTGATGAAGCCAGTGTGTAAACATTT 1020
Db 1754 ACAGAAAGAGTACCATACCTGACGATCTGATGAAGCCAGTGTGTAAACATTT 1695
QY 1021 TGAAGACAGCTCAGGGGACAAAAT 1046
Db 1694 TGAAGACAGCTCAGGGGACAAAAGT 1669

RESULT 10

US-09-062-597A-28

; Sequence 28, Application US/09062597A

; GENERAL INFORMATION:

; APPLICANT: Sim, Gek-Kee

; APPLICANT: Yang, Shumin

; APPLICANT: Sellins, Karen S.

; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY

; TITLE OF INVENTION: PROTEINS, NUCLEIC ACID MOLECULES, AND

; TITLE OF INVENTION: USES THEREOF

; NUMBER OF SEQUENCES: 29

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Carol Talkington Verser, Ph.D.

; ADDRESSEE: Heska Corporation

; CITY: Fort Collins

; STATE: Colorado

; COUNTRY: USA

; ZIP: 80525

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: Windows 95

; SOFTWARE: WordPerfect for Windows, Version 7.0

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/062,597A

; FILING DATE: 17-APR-1998

; CLASSIFICATION: 514

; ATTORNEY/AGENT INFORMATION:

; NAME: Verser, Carol Talkington

; REGISTRATION NUMBER: 37,459

; REFERENCE/DOCKET NUMBER: IM-1

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 970/493-7272

; TELEFAX: 970/484-9505

; INFORMATION FOR SEQ ID NO: 28:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 996 nucleotides

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: cDNA

; FEATURE:

; NAME/KEY: CDS

; LOCATION: 1..996

; US-09-062-597A-28

Query Match

Best Local Similarity 90.7%; Score 979.2; DB 16; Length 996;

Matches 981; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 63 ATGGGCAATTTGTACAGCACTATGGGACATGAGTCACTCTCTCTGTGATGGCCCTCTG 122
Db 1 ATGGGCAATTTGTACAGCACTATGGGACATGAGTCACTCTCTCTGTGATGGCCCTCTG 60
QY 123 CTCTCTGGTGTCTTCTCCATGAAGTCAAGATATTTCAACAAGACTGGAGACTGCCA 182
Db 61 CTCTCTGGTGTCTTCTCCATGAAGTCAAGATATTTCAACAAGACTGGAGACTGCCA 120
QY 183 TGCCATTTTACAACTCTCAAAACATPAAGCCTGGATGAGTGTGTATTTTGGCAGGAC 242
Db 121 TGCCATTTTACAACTCTCAAAACATPAAGCCTGGATGAGTGTGTATTTTGGCAGGAC 180

QY 243 CAGGATAAGCTGTTCTGTATGAGATATTTAGAGGCAAGAGAACCTCTCAAAATGTTTCAT 302
Db 181 CAGGATAAGCTGTTCTGTATGAGATATTTAGAGGCAAGAGAACCTCTCAAAATGTTTCAT 240
QY 303 CTCAAATATAAGGGCCGTACAAGCTTTTGAAGGACAACTGGACCTCTGAGACTCCCAAT 362
Db 241 CTCAAATATAAGGGCCGTACAAGCTTTTGAAGGACAACTGGACCTCTGAGACTCCCAAT 300
QY 363 GTTCAGATCAAGGACAAAGGSCATATCACTGTTTTCATTTCATTATATAAGGGCCCAAGGA 422
Db 301 GTTCAGATCAAGGACAAAGGSCATATCACTGTTTTCATTTCATTATATAAGGGCCCAAGGA 360
QY 423 CTAGTTTCCCATGCACCAATGAGTTCTGACCTATCATGTCCTTGTCTAACTTTCAGTCAACCT 482
Db 361 CTAGTTTCCCATGCACCAATGAGTTCTGACCTATCATGTCCTTGTCTAACTTTCAGTCAACCT 420
QY 483 GAAATAACAGTAATCTTAAATAGAACAGAAAATTTCTGGCATCATATAATTTGACCTGCTCA 542
Db 421 GAAATAACAGTAATCTTAAATAGAACAGAAAATTTCTGGCATCATATAATTTGACCTGCTCA 480
QY 543 TCTATACAGGTTTACCCAGAACCTTAAGGAGATGTTTTCAGCTAAACACTGAGATTTC 602
Db 481 TCTATACAGGTTTACCCAGAACCTTAAGGAGATGTTTTCAGCTAAACACTGAGATTTC 540
QY 603 ACTACTAAGTATGATGATCTGTCATGAAGAAATCTCAAAATAATGTGACAGAACTGTACAAC 662
Db 541 ACTACTAAGTATGATGATCTGTCATGAAGAAATCTCAAAATAATGTGACAGAACTGTACAAC 600
QY 663 GTTTCATCAGCTTGCCCTTTTTCAGTCCCTGAAGCACAAATGTGAGCGTCTTTTGTGCC 722
Db 601 GTTTCATCAGCTTGCCCTTTTTCAGTCCCTGAAGCACAAATGTGAGCGTCTTTTGTGCC 660
QY 723 CTGAACCTGGAGACATGAGATGCTGCTCTCCCTACCTTTCAATATAGATGACACACCT 782
Db 661 CTGAACCTGGAGACATGAGATGCTGCTCTCCCTACCTTTCAATATAGATGACACACCT 720
QY 783 AAGGATAAAGACCTCTGAACCAAGGCACTTCCTCTGATGTCGCTGCTACTTGTAAATGTTT 842
Db 721 AAGGATAAAGACCTCTGAACCAAGGCACTTCCTCTGATGTCGCTGCTACTTGTAAATGTTT 780
QY 843 GTTGTGTTTGTGGGATGGTGTCTTTTAAACACTAAGGAAAGGAAAGAGAGAGAGAGCCT 902
Db 781 GTTGTGTTTGTGGGATGGTGTCTTTTAAACACTAAGGAAAGGAAAGAGAGAGAGCCT 840
QY 903 GCGCCCTCTCATGAATGTGAACCACTCAAAAGGAGAGAGAGAGAGAGAGAGAGAGAGAG 962
Db 841 GCGCCCTCTCATGAATGTGAACCACTCAAAAGGAGAGAGAGAGAGAGAGAGAGAGAGAG 900
QY 963 GAAAGAGTACCATACCTACCTGAGATCTGATGAAGCCAGTGTCTTAAACATTTTG 1022
Db 901 GAAAGAGTACCATACCTACCTGAGATCTGATGAAGCCAGTGTCTTAAACATTTTG 960
QY 1023 AAGACAGCTCTAGGGGACAAAAT 1046
Db 961 AAGACAGCTCTAGGGGACAAAAGT 984

RESULT 11

US-09-062-597A-29/c

; Sequence 29, Application US/09062597A

; GENERAL INFORMATION:

; APPLICANT: Sim, Gek-Kee

; APPLICANT: Yang, Shumin

; APPLICANT: Sellins, Karen S.

; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY

; TITLE OF INVENTION: PROTEINS, NUCLEIC ACID MOLECULES, AND

; TITLE OF INVENTION: USES THEREOF

; NUMBER OF SEQUENCES: 29

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Carol Talkington Verser, Ph.D.

; ADDRESSEE: Heska Corporation

; STREET: 1825 Sharp Point Drive

City: Fort Collins
STATE: Colorado
COUNTRY: USA
ZIP: 80525
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: Windows 95
SOFTWARE: WordPerfect for Windows, Version 7.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/062,597A
FILING DATE: 17-APR-1998
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: Verser, Carol Talkington
REGISTRATION NUMBER: 37,459
REFERENCE/DOCKET NUMBER: IM-1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 970/493-7272
TELEFAX: 970/484-9505
INFORMATION FOR SEQ ID NO: 29:
SEQUENCE CHARACTERISTICS:
LENGTH: 996 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
US-09-062-597A-29

Query Match 90.7%; Score 979.2; DB 16; Length 996;
Best Local Similarity 99.7%; Pred. No. 2e-269;
Matches 981; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 63 ATGGGCAATTTGGACAGCACTATGGGACTGAGTCACACTCTCTCTGTGTGATGGCCCTCTCTG 122
DB ATGGGCAATTTGGACAGCACTATGGGACTGAGTCACACTCTCTCTGTGTGATGGCCCTCTCTG 937

QY 123 CTCTCTGGTGTCTTCCATGAAGAGTCAAGCATATTTCAACAAGACTGGAGACTGCCA 182
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QY 183 TGCCATTTTACAACTCTCAAAACATATGAGCTGGATGAGTGTGTAGTATTTTGGCAGGAC 242
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QY 363 GTTCAGATCAAGGACCAAGGCGACATATCACTGTGTTTCATTATTAAGGGCCCAAGGA 422
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QY 423 CTAGTTTCCCATGCAACCAATAGATTCTGACCTATACAGTGTGCTGCTTCACTTCACTCA 482
DB CTAGTTTCCCATGCAACCAATAGATTCTGACCTATACAGTGTGCTGCTTCACTTCACTCA 577

QY 483 GAAATAACAGTAACTTCTAATGAACAGAAATTTCTGGGATCATATAATTTGACCTGCTCA 542
DB GAAATAACAGTAACTTCTAATGAACAGAAATTTCTGGGATCATATAATTTGACCTGCTCA 517

QY 543 TCTATACAAGGTTTACCAGAACCTAAGGAGATGTATTTTTCAGCTAAACACTGAGATTCA 602
DB TCTATACAAGGTTTACCAGAACCTAAGGAGATGTATTTTTCAGCTAAACACTGAGATTCA 457

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QY 663 GTTCTTATCAGCTTGCCTTTTTCAGTCCCTGAAGCACACAATGTGAGCGTCTTTTGTGCG 722
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QY 723 CTGAAACTGGAGACACTGAGATGCTCTCTCCCTACCTTTCAATATAGATGCAACAACCT 782
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QY 783 AAGGATAAAGACCCCTGAACAAGGCCACTTCTCTGGATTTGGGCTGTACTTGTATGTTT 842
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QY 843 GTTGTGTTTTTGGGATGCTGTCCTTTTAAACACTAAAGGAAAGGAAGAGAGAGCGCT 902
DB GTTGTGTTTTTGGGATGCTGTCCTTTTAAACACTTAAAGGAAAGGAAGAGAGAGCGCT 157

QY 903 GGCCCTCTCATGAATGTGAAACCATCAAAAGGGAGAGAAAAAGAGAGCAACCAAC 962
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RESULT 12
US-09-646-561-28
Sequence 28, Application US/09646561
GENERAL INFORMATION:
APPLICANT: Sim, Gek-kee
APPLICANT: Yang, Shumin
APPLICANT: Sellins, Karen S.
TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC
ACID MOLECULES, AND USES THEREOF
FILE REFERENCE: IM-1-CI-PCT
CURRENT APPLICATION NUMBER: US/09/646,561
CURRENT FILING DATE: 2000-09-19
PRIOR APPLICATION NUMBER: 60/078,765
PRIOR FILING DATE: 1998-03-19
PRIOR APPLICATION NUMBER: 09/062,597
PRIOR FILING DATE: 1998-04-17
NUMBER OF SEQ ID NOS: 65
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 28
LENGTH: 996
TYPE: DNA
ORGANISM: Felis catus
US-09-646-561-28

Query Match 90.7%; Score 979.2; DB 29; Length 996;
Best Local Similarity 99.7%; Pred. No. 2e-269;
Matches 981; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 63 ATGGGCAATTTGGACAGCACTATGGGACTGAGTCACACTCTCTCTGTGTGATGGCCCTCTCTG 122
DB ATGGGCAATTTGGACAGCACTATGGGACTGAGTCACACTCTCTCTGTGTGATGGCCCTCTCTG 60

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QY 183 TGCCATTTTACAACTCTCAAAACATATGAGCTGGATGAGTGTGTAGTATTTTGGCAGGAC 242
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QY 243 CAGGATAAGCTGTTCTGTATGAGATATTCAGAGGCAAGAGAAACCTCAAAATGTTTCA 302
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QY 783 AAGGATAAAGACCTGAAACAAGGCCACTTCTCTGATTTGGCTGCTACTTGTAAATGTTT 842
Db 721 AAGGATAAAGACCTGAAACAAGGCCACTTCTCTGATTTGGCTGCTACTTGTAAATGTTT 780
QY 843 GTTGTGTTTTTGGGATGGTGTCTTTTAAACACTAAGGAAAGGAAGAACGACGCT 902
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QY 1023 AAGACAGCTCAGGGGACAAAAAT 1046
Db 961 AAGACAGCTCAGGGGACAAAAAT 984

RESULT 13
US-09-646-561-29/c
; Sequence 29, Application US/09646561
; GENERAL INFORMATION:
; APPLICANT: Sim, Gek-Kee
; APPLICANT: Yang, Shumin
; APPLICANT: Sellins, Karen S.
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES, AND USES THEREOF
; FILE REFERENCE: IM-1-C1-PCT
; CURRENT APPLICATION NUMBER: US/09/646,561
; PRIOR FILING DATE: 2000-09-19
; PRIOR APPLICATION NUMBER: 60/078,765
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 09/062,597
; PRIOR FILING DATE: 1998-04-17
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 29
; LENGTH: 996

; TYPE: DNA
; ORGANISM: Felis catus
US-09-646-561-29

Query Match 90.7%; Score 979.2; DB 29; Length 996;
Best Local Similarity 99.7%; Pred. No. 28-269; Indels 0; Gaps 0;
Matches 991; Conservative 0; Mismatches 3;

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Db 996 ATGGGCAATTTGTGACAGCACTATGGGACTGAGTCACTCTCTCTGTGATGGCCCTCCCTG 937
QY 123 CTCTCTGTGTTTCTTCCATGAAGAGTCAAGCATATTTCAACAAGACTGGAGAACTGCCA 182
Db 936 CTCTCTGTGTTTCTTCCATGAAGAGTCAAGCATATTTCAACAAGACTGGAGAACTGCCA 877
QY 183 TCCCAATTTTACAAATCTCTCAAAACATTAAGCCTGGATGAGCTGGTAGTATTTTGGCAGGAC 242
Db 876 TCCCAATTTTACAAATCTCTCAAAACATTAAGCCTGGATGAGCTGGTAGTATTTTGGCAGGAC 817
QY 243 CAGGATAAGCTGTTTCTGTATGAGATATTTCAAGGCAAAAGAGAACCTTCAAAATGTTTCAT 302
Db 816 CAGGATAAGCTGTTTCTGTATGAGATATTTCAAGGCAAAAGAGAACCTTCAAAATGTTTCAT 757
QY 303 CTCAAAATATAAGGGCCGTACAAGCTTTGACAAGGACAACCTGGACCTGAGACTCCACAAT 362
Db 756 CTCAAAATATAAGGGCCGTACAAGCTTTGACAAGGACAACCTGGACCTGAGACTCCACAAT 697
QY 363 GTTCAGATCAAGGACAAAGGGACATATCACTGTTTTCATTCATTAATAAGGGCCCAAGGA 422
Db 696 GTTCAGATCAAGGACAAAGGGACATATCACTGTTTTCATTCATTAATAAGGGCCCAAGGA 637
QY 423 CTAGTTTCCCATGCAACAAATAGTCTGACCTATCAGTCTTGTGTAACCTTCAGTCAACCT 482
Db 636 CTAGTTTCCCATGCAACAAATAGTCTGACCTATCAGTCTTGTGTAACCTTCAGTCAACCT 577
QY 483 GAAATAACAGTAACTTCTAATAGAACAGAAAAATCTGGCATCATATAATTTGACCTGCTCA 542
Db 576 GAAATAACAGTAACTTCTAATAGAACAGAAAAATCTGGCATCATATAATTTGACCTGCTCA 517
QY 543 TCTATACAAGGTTTACCGAGACCTTAAGGAGATGTAATTTTCAGCTAAACAACAGAGATTCA 602
Db 516 TCTATACAAGGTTTACCGAGACCTTAAGGAGATGTAATTTTCAGCTAAACAACAGAGATTCA 457
QY 603 ACTACTAAGTATGATGCTCATGAAGAAATCTCAAAATAATGTGACAGAACTGTACAAC 662
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QY 663 GTTTCATCAGCTTGCCTTTTTCAGTCCCTGGAAGCACACAATGTGAGCGTCTTTTGTGCC 722
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QY 723 CTGAAACTGGAGACACTGGAGATGCTCTCCCTACCTTCAATATAGATGCACAACT 782
Db 336 CTGAAACTGGAGACACTGGAGATGCTCTCCCTACCTTCAATATAGATGCACAACT 277
QY 783 AAGGATAAAGACCTTGAACAGGCGCACTTCTCTGATTTGGCGTGTACTTGTAAATGTTT 842
Db 276 AAGGATAAAGACCTTGAACAGGCGCACTTCTCTGATTTGGCGTGTACTTGTAAATGTTT 217
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QY 903 GGCCTCTCATGAATGTGAACCAATCAAAAGGGAGAGAAAAGAGAGCAACAGACCAAC 962
Db 156 GGCCTCTCATGAATGTGAACCAATCAAAAGGGAGAGAAAAGAGAGCAACAGACCAAC 97
QY 963 GAAAGAGTACCATACCACTGCTGAGAGATCTGATGAAGCCAGTGTCTTAACATTTTG 1022
Db 96 GAAAGAGTACCATACCACTGCTGAGAGATCTGATGAAGCCAGTGTCTTAACATTTTG 37
QY 1023 AAGACAGCTCAGGGGACAAAAAT 1046

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Db 36 AAGACAGCCTCAGGGACAAAAGT 13
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RESULT 14
US-10-790-396-28
; Sequence 28, Application US/10790396
; GENERAL INFORMATION:
; APPLICANT: Sim, Gek-Kee
; APPLICANT: Yang, Shumin
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES, AND USES THEREOF
; FILE REFERENCE: IM-1-C1-PCT
; CURRENT APPLICATION NUMBER: US/10/790,396
; CURRENT FILING DATE: 2004-03-01
; PRIOR APPLICATION NUMBER: US/09/646,561
; PRIOR FILING DATE: 2000-09-19
; PRIOR APPLICATION NUMBER: 60/078,765
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 09/062,597
; PRIOR FILING DATE: 1998-04-17
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 28
; LENGTH: 996
; TYPE: DNA
; ORGANISM: Felis catus
US-10-790-396-28
Query Match 90.7%; Score 979.2; DB 62; Length 996;
Best Local Similarity 99.7%; Pred. No. 2e-269;
Matches 981; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 63 ATGGGATTGTGACAGCACTATGGACTGAGTCACACTCTCTCTGTGTGATGGCCCTCTCG 122
Db 1 ATGGGATTGTGACAGCACTATGGACTGAGTCACACTCTCTCTGTGTGATGGCCCTCTCG 60
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US-10-790-396-29/c
; Sequence 29, Application US/10790396
; GENERAL INFORMATION:
; APPLICANT: Sim, Gek-Kee
; APPLICANT: Yang, Shumin
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES, AND USES THEREOF
; FILE REFERENCE: IM-1-C1-PCT
; CURRENT APPLICATION NUMBER: US/10/790,396
; CURRENT FILING DATE: 2004-03-01
; PRIOR APPLICATION NUMBER: US/09/646,561
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; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 09/062,597
; PRIOR FILING DATE: 1998-04-17
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 29
; LENGTH: 996
; TYPE: DNA
; ORGANISM: Felis catus
US-10-790-396-29
Query Match 90.7%; Score 979.2; DB 62; Length 996;
Best Local Similarity 99.7%; Pred. No. 2e-269;
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Db 36 AAGACAGCCTCAGGGGACAAAGT 13

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OM nucleic - nucleic search, using sw model

Run on: August 20, 2005, 01:00:27 ; Search time 1823 Seconds

(without alignments)
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Title: US-09-303-510-5

Perfect score: 1080

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Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 23759627 seqs, 657677716 residues

Total number of hits satisfying chosen parameters: 47539254

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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- 3: /cgn2_6/ptodata/1/pna/US06_NEW_COMB.seq.*
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- 15: /cgn2_6/ptodata/1/pna/US10_NEW_COMB.seq6.*
- 16: /cgn2_6/ptodata/1/pna/US10_NEW_COMB.seq7.*
- 17: /cgn2_6/ptodata/1/pna/US10_NEW_COMB.seq8.*
- 18: /cgn2_6/ptodata/1/pna/US10_NEW_COMB.seq9.*
- 19: /cgn2_6/ptodata/1/pna/US11_NEW_COMB.seq.*
- 20: /cgn2_6/ptodata/1/pna/US11_NEW_COMB.seq2.*
- 21: /cgn2_6/ptodata/1/pna/US11_NEW_COMB.seq3.*
- 22: /cgn2_6/ptodata/1/pna/US11_NEW_COMB.seq4.*
- 23: /cgn2_6/ptodata/1/pna/US11_NEW_COMB.seq5.*
- 24: /cgn2_6/ptodata/1/pna/US11_NEW_COMB.seq6.*
- 25: /cgn2_6/ptodata/1/pna/US60_NEW_COMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	ID	Description
1	772.8	71.6	1897	1	PCT-US05-00517-3532
2	612.4	56.7	994	23	US-11-170-797-13
3	582.2	53.9	1795	1	PCT-US05-00517-3531
4	580.6	53.8	1424	20	US-11-027-053-3
5	580.6	53.8	1600	14	US-10-940-774A-5261
6	580.6	53.8	1926	9	US-10-302-689A-14809
7	580.6	53.8	2717	23	US-11-041-164A-33
8	580.6	53.8	2794	1	PCT-US05-18533-16
9	580.6	53.8	2794	1	PCT-US05-00517-3532
10	580.6	53.8	2794	1	PCT-US05-00517-3532
11	580.6	53.8	2794	1	PCT-US05-00517-3532
12	580.6	53.8	2794	1	PCT-US05-00517-3532
13	580.6	53.8	2794	1	PCT-US05-00517-3532
14	580.6	53.8	2794	1	PCT-US05-00517-3532
15	580.6	53.8	2794	1	PCT-US05-00517-3532
16	580.6	53.8	2794	1	PCT-US05-00517-3532
17	580.6	53.8	2794	1	PCT-US05-00517-3532
18	580.6	53.8	2794	1	PCT-US05-00517-3532
19	580.6	53.8	2794	1	PCT-US05-00517-3532
20	580.6	53.8	2794	1	PCT-US05-00517-3532
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22	580.6	53.8	2794	1	PCT-US05-00517-3532
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29	580.6	53.8	2794	1	PCT-US05-00517-3532
30	580.6	53.8	2794	1	PCT-US05-00517-3532
31	580.6	53.8	2794	1	PCT-US05-00517-3532
32	580.6	53.8	2794	1	PCT-US05-00517-3532
33	580.6	53.8	2794	1	PCT-US05-00517-3532
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35	580.6	53.8	2794	1	PCT-US05-00517-3532
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37	580.6	53.8	2794	1	PCT-US05-00517-3532
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39	580.6	53.8	2794	1	PCT-US05-00517-3532
40	580.6	53.8	2794	1	PCT-US05-00517-3532
41	580.6	53.8	2794	1	PCT-US05-00517-3532
42	580.6	53.8	2794	1	PCT-US05-00517-3532
43	580.6	53.8	2794	1	PCT-US05-00517-3532
44	580.6	53.8	2794	1	PCT-US05-00517-3532
45	580.6	53.8	2794	1	PCT-US05-00517-3532

9	580.6	53.8	2794	1	PCT-US05-18790-54	Sequence 54, Appl
10	580.6	53.8	2794	23	US-11-137-807-16	Sequence 16, Appl
11	533.2	49.4	1830	9	US-10-302-689A-57885	Sequence 5788, A
12	533.2	49.4	2781	1	PCT-US05-18790-56	Sequence 56, Appl
13	528.2	48.9	972	23	US-11-170-797-2	Sequence 2, Appl
14	429.6	39.8	1056	12	US-10-960-855-17	Sequence 17, Appl
15	351.4	32.5	754	25	US-60-680-544-17478	Sequence 17478, A
16	351.4	32.5	754	25	US-60-680-473-17478	Sequence 17478, A
17	329.6	30.5	930	23	US-11-170-797-9	Sequence 9, Appl
18	295.2	27.3	942	23	US-11-136-527-2551	Sequence 2551, Ap
19	292	27.0	576	1	PCT-US05-00517-698	Sequence 698, App
20	234.6	21.7	46118	14	US-10-940-774A-17003	Sequence 17003, A
21	160	14.8	1001	10	US-10-301-480C-317760	Sequence 317760, A
22	160	14.8	1001	16	US-10-301-480A-317760	Sequence 317760, A
23	160	14.8	1001	18	US-10-301-480B-317760	Sequence 317760, A
24	128.4	11.9	600	23	US-11-136-527-6647	Sequence 6647, Ap
25	57.4	5.3	601	14	US-10-940-774A-183467	Sequence 183467, Ap
26	48.4	4.5	601	14	US-10-940-774A-183455	Sequence 183455, Ap
27	41.2	3.8	46	23	US-11-041-164A-9	Sequence 9, Appl
28	41	3.8	662	8	US-09-474-435A-141149	Sequence 141149, A
29	41	3.8	1563	8	US-09-474-435A-4765	Sequence 4765, Ap
30	40.8	3.8	492	7	US-09-925-065A-589942	Sequence 589942, A
31	39.8	3.7	563	7	US-09-925-065A-416395	Sequence 416395, A
32	39.8	3.7	575	10	US-10-301-480C-858068	Sequence 858068, A
33	39.8	3.7	575	16	US-10-301-480A-858068	Sequence 858068, A
34	39.8	3.7	575	17	US-10-301-480-481999	Sequence 481999, A
35	39.8	3.7	575	17	US-10-301-480-1095408	Sequence 1095408, A
36	39.8	3.7	575	18	US-10-301-480B-858068	Sequence 858068, A
37	39.8	3.7	981	25	US-60-669-241-2781	Sequence 2781, Ap
38	38.4	3.6	608	10	US-10-301-480C-932624	Sequence 932624, A
39	38.4	3.6	608	16	US-10-301-480A-932624	Sequence 932624, A
40	38.4	3.6	608	17	US-10-301-480-556555	Sequence 556555, A
41	38.4	3.6	608	17	US-10-301-480-1169964	Sequence 1169964, A
42	38.4	3.6	608	18	US-10-301-480B-932624	Sequence 932624, A
43	38.4	3.6	1478	23	US-11-136-527-1540	Sequence 1540, Ap
44	38.2	3.5	353	20	US-11-026-159-194	Sequence 194, App
45	38	3.5	566	10	US-10-301-480C-439615	Sequence 439615, A

ALIGNMENTS

RESULT 1
PCT-US05-00517-3532

; Sequence 3532, Application PC/TUS0500517

; GENERAL INFORMATION:

; APPLICANT: THE OHIO STATE UNIVERSITY

; TITLE OF INVENTION: METHODS OF USING DATABASES TO CREATE GENE-EXPRESSION MICROARRAYS

; FILE REFERENCE: 18525-04130

; CURRENT APPLICATION NUMBER: PCT/US05/00517

; CURRENT FILING DATE: 2005-01-07

; PRIOR APPLICATION NUMBER: 60/535,111

; PRIOR FILING DATE: 2004-01-08

; NUMBER OF SEQ ID NOS: 3859

; SOFTWARE: PatentIn version 3.3

; SEQ ID NO 3532

; LENGTH: 1897

; TYPE: DNA

; ORGANISM: Canis familiaris

PCT-US05-00517-3532

Query Match 71.6%; Score 772.8; DB 1; Length 1897;
Best Local Similarity 88.8%; Pred. No. 6.7e+200;
Matches 860; Conservative 0; Mismatches 102; Indels 6; Gaps 2;

QY 79 GCACATATGGAGCTGAGTCACACTCTCTGTGATGCCCTCTGCTCTCTGCTGTTCTT 138

Db 19 GCACATATGGAGCTGAGTCACACTCTCTGTGATGCCCTCTGCTCTCTGCTGTTCTT 78

QY 139 CCATGAAGAGTCAAGCATATTTTCAACAGACTGGAGAACTGGCAATGTCACAACT 198

Db 79 CCATGAAGAGTCAAGCATATTTTCAACAGACTGGAGAACTGGCAATGTCACAACT 138

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QY 199 CTCNAAACATAAGCCTGGATGAGCTGGTAGTATTTTGGCAGGACACGAGTAAAGCTGGTTC 258
Db 139 CTCNAAACATAAGCCTGGATGAGTGGTAGTGTGTTTGGCAGGACACGAGTAAAGCTGGTTC 198
QY 259 TGTATCAGATATTCAGAGGCAAGAGAACCCCTCAAAATGTTTCATCTCAAAATATAAGGGCC 318
Db 199 TGTACGAGCTATACAGAGGCAAGAGAACCCCTCAAAATGTTTCATCGCAAGTATAAGGGCC 258
QY 319 GTACAGCTTTGACAAAGGACAACCTGGACCCCTGAGACTCCACAATGTTTCAGATCAAGGACA 378
Db 259 GCACAGCTTTGACAAAGGACAATTTGGACCCCTGAGACTCCACAATGTTTCAGATCAAGGACA 318
QY 379 AGGSCACATATCACTGTTTCATTCATTATTAAGGGCCCAAGAGCTAGTTCCTCATGACC 438
Db 319 AGGGCTTGTATCAATGTTTCGTTTCATCATATAAGGGCCCAAGAGCTCGTTCCTCATGACC 378
QY 439 AAATGAGTTTCGACCTATCAGTGTCTGCTTAACCTTCAGTCAACCTGAAATPACAGTAACCTT 498
Db 379 AGATGAAATTCGACCTATCAGTGTCTGCTTAACCTTCAGTCAACCTGAAATPACAGTAACCTT 438
QY 499 CTAATAGAACAGAAAATTCGGCATCATAAATTTGACCTGCTCATCTATCAAGGTTACC 558
Db 439 CTAATAGAACAGAAAATTCGGCATCATAAATTTGACCTGCTCATCTATCAAGGTTACC 498
QY 559 CAGAACCTAAGGAGATGTTATTTTTCAGCTAAACACTGAGAAATTCAACTACTAAGTATGATA 618
Db 499 CAGAACCTAAGGAGATGTTATTTTTCAGCTAAACACTGAGAAATTCAACTACTAAGTATGATA 558
QY 619 CTGTCAATGAAGAAATCTCAAAATAATGTGACAGAACTGTACAACTGTTTCTATCAGCTTC 678
Db 559 CTGTCAATGAAGAAATCTCAAAATAATGTGACAGAACTGTACAACTGTTTCTATCAGCTTC 618
QY 679 CTTTTCAGTCCCTGAAGCACACAATGTGAGCGTCTTTTGTGTCCTGAACTGAGACAC 738
Db 619 CTTTTCAGTCCCTGAAGCACACAATGTGAGCGTCTTTTGTGTCCTGAACTGAGTCAA 678
QY 739 TGGAGTGTGCTGCTCCCTACCTTCAATATATAGATGACAACTAAGAGTAAAGCCCTG 798
Db 679 T---GAAAGTTCCTCCCTACCTTCAATATATAGATGACAACTAAGAGTAAAGCCCTG 732
QY 799 AACAGGCCACTTCCTCTGAGTTGCGGCTGTACTTGAATGTTTGTGTTTGTGGGA 858
Db 733 ATGGAGACACATCCTCTGAGTTGCGGCTGTACTTGAATGTTTGTGTTTGTGGGA 792
QY 859 TGTGTCTTTTAAACACTAAGGAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 918
Db 793 TGTGTGTTCTTTTAAACACTAAGGAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 852
QY 919 GTCAAAACCATCAAAAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 978
Db 853 GTCAAAACCATCAAAAGTGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 912
QY 979 ACCTACCTGAGAGATCTGATGAAGCCAGTGTGTTAAACATTTTGAAGACAGCCTCAGGGG 1038
Db 913 ATGAACGGAAGAGATCTGATGAAGCCAGTGTGTTAAACATTTTGAAGAGAGAGTTCAGGG 972
QY 1039 ACAAAAT 1046
Db 973 ACAACAGT 980

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RESULT 2

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US-11-170-797-13
; Sequence 13, Application US/11170797
; GENERAL INFORMATION:
; APPLICANT: Lechler, Robert
; APPLICANT: Rogers, Nichola
; APPLICANT: Dörfling, Anthony
; APPLICANT: ML Laboratories PLC
; TITLE OF INVENTION: IMPROVEMENT OF TOLERANCE TO A ZENOGRAPH
; FILE REFERENCE: 5585-59112-02
; CURRENT APPLICATION NUMBER: US/11/170,797

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; CURRENT FILING DATE: 2005-06-28
; PRIOR APPLICATION NUMBER: US 09/868,605
; PRIOR FILING DATE: 2001-06-19
; PRIOR APPLICATION NUMBER: PCT/GB99/04200
; PRIOR FILING DATE: 1999-12-17
; PRIOR APPLICATION NUMBER: 9827921.9
; PRIOR FILING DATE: 1998-12-19
; PRIOR APPLICATION NUMBER: 9925015.1
; PRIOR FILING DATE: 1999-10-23
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: Patent in Ver. 2.1
; SEQ ID NO 13
; LENGTH: 994
; TYPE: DNA
; ORGANISM: Porcuss spp
US-11-170-797-13

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Query Match 56.7%; Score 612.4; DB 23; Length 994;
Best Local Similarity 80.6%; Pred. No. 3.2e-156;
Matches 783; Conservative 0; Mismatches 171; Indels 18; Gaps 5;

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QY 84 ATGGGACTGAGTCACTCTCTTGTGATGGCCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 143
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QY 144 AAGGCTCAAGCATATTTCAACAAGACTCGAGAACTGCCATGCCATTTTACAAACTCTCAA 203
Db 61 AAAGTCAAGCATATTTCAATGAGACTCGAGAACTGCCGTGCCATTTTACAAACTCGCAG 120
QY 204 AACATAAGCCTGGATGAGCTGGTAGTATTTTGGCAGGACCAAGGATAAGCTGGTCTGTAT 263
Db 121 AACCTAAGCCTGGATGAGCTGGTAGTATTTTGGCAGGACCAAGGATAAAGCTGGTCTGTAC 180
QY 264 GAGATATTCAGAGGCAAGAGAACCTCAAAATGTTTCACTCTCAATATAAGGCCGTACA 323
Db 181 GAGCTATACCGAGGCAAGAGAACCTCATATGTTTAAATTCAGATATGGGTGCGACA 240
QY 324 AGCTTTGACAGGACAACTGGACCTGAGACTTCCAACTGTTTCAATCAAGGACCAAGGCG 383
Db 241 AGCTTTGACAGGCAAGGACCTGGACCTGAGACTTCCAACTGTTTCAATCAAGGACCAAGGCG 300
QY 384 ACATATCACTGTTTCATTCATTAAGGGCCCAAGGACTAGTTCCTCATGACCAAAATG 443
Db 301 TCATATCAATGTTTCATCCATCATTAAGGGCCGAGCTGGACTTGTTCCTATCCACCAGATG 360
QY 444 AGTCTGACCTATCAGTGTCTGCTAACTTCACTCAACCTGAAATTAACAGTAACTTCTAAT 503
Db 361 AGTCTGACCTATCATTGCTTGAACCTTCACTCAACCTGAAATTAACAGTAACTTCTAAT 420
QY 504 AGAAGACAGAAAATTTCTGGCATCATAAATTTGACCTCTCATCTATATACAAGTTTACCAGAA 563
Db 421 CACACAGAAAATTTCTG---TCATNAATTTGACCTCTCATCTACACAAGGCTTACCAGAA 477
QY 564 CTTAAGGAGATGTTATTTTCACTAAGCTAAGCTAAGCTAAGCTAAGCTAAGCTAAGCTAAGCT 623
Db 478 CCCCAGAGGATGATATGTTGCTAAATACGAAGAAATTCAAACCTGAGCATGATGCTGAC 537
QY 624 ATGAAGAAATCTCAAAATAATGTGACAGAACTGTAAGGTTTCTATCAGCTTGCCTTTT 683
Db 538 ATGAAGAAATCTCAAAATAATCAATACCGGAACCTCTCAATGTTATCAATCAGGTTGCTCTT 597
QY 684 TCAGTCCCTGAAAGCACAAATGTGAGCGTCTTTTGTGCCCTGAAACTGGAGACACTGGAG 743
Db 598 CCAATCCCTCCGAGACAAATGTGAGCATCGTCTGTCTCTCAACTTGAAGCAAGCAAG 657
QY 744 A---TGCTGCTCTCCCTACCTTTCAATATAGATGACAACTTAAAGGATAAAGACCTGAA 800
Db 658 ACACGTCTTTTCTCCCTACCTTTGTAATATAGATGCAAGGACCACTGTGCAACCCCTGTC 717
QY 801 CAAGGCCACTTCTCTGGATTGCGGCTGACTTGTAAATGTTTGTGTTTGTGTTTGTGTTGTTG 860
Db 718 CCAGACCAATCCTCTGGATTGAGCTCTACTTGTAAACAGTGTGTTGTTGTTGTTGTTGTTG 777

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Db 422 ACAATCTTCAGATCAAGGCAAGGGCTTGATCAATGTATCATCCATCAAAAAACCCCA 481
QY 418 AAGACTAGTTCCCATGCAACCAATAGTTCTGACCTATCAGTCTTAACTTCAGTC 477
Db 482 CAGGAATGATCGCATCCACCATGAAATCTGAACTGTCAGTCTTAACTTCAGTC 541
QY 478 AACCTGAAATPACAGTAACCTTCTAATAGAACAGAAATCTCTGCAATATAAAATTTGACCT 537
Db 542 AACCTGAAATAGTACCAATTTCTTAATTAACAGAAAA---TGTGTACATAAAATTTGACCT 598
QY 538 GCTCATCTATACAGGTTACCCAGAACCTTAAGAGATGTATTTTCAGCTTAACACATGAGA 597
Db 599 GCTCATCTATACAGGTTACCCAGAACCTTAAGAGATGTATTTTCAGCTTAACACATGAGA 658
QY 598 ATTCAACTACTAGTATGATACCTGCTCATGAAGAAATCTCAAAATATGTGACAGACTCT 657
Db 659 ATTCAACTACTAGTATGATGTTATGAGAAATCTCAAAATATGTGACAGACTCT 718
QY 658 ACAACGCTTTCTATCAGCTTGCCCTTTTTCAGTCCCTGAAG---CACACAAATGTGAGCGTCT 714
Db 719 ACGACGTTTCCATCAGCTTGCTGTGTTTCAATCCCTGATGTACGACCAATATGACCATCT 778
QY 715 TTTGTGCCCTGAACTGGAGACACTGGAGATGCTGCTCCCTTAACCTTTCAATATAGATG 774
Db 779 TCTGTATTTCTGGAACCTGACA---AGACGGCGCTTTTATCTTCACCTTTCTCTATAG--- 832
QY 775 CACAACTAAGGATAAAGACCTGAAACAGGCCATCTCTGATTTGGGCTGTACTTG 834
Db 833 ---AGCTTGAAGACCTCAGCTCCCCAGACCAATCTCTGGAATTAACAGTGTACTTC 889
QY 835 TTAATGTTGTTGTTTGTGGATGGTGTCTTTTAAACACTAAGGAAAAGAGAGAGA 894
Db 890 CAACAGTTTATTTATATGTGTGATGTTTCTGTCTAATTTCTATGGAATGGAAGAGA 949
QY 895 AGCAGCTGGCCCTCTCATGAACTGAAACCATCAAAAGGAGAGAAAAGAGAGACAAAC 954
Db 950 AGCGGCTCGCAACTCTTATAATGTGGAACCAACAACTAAGAGAGGAGAGTGAAC 1009
QY 955 AGACCAACGAAGAGTACATACCGTACCTGAGAGATCTGATGAAGCCCAAGTGTG--- 1011
Db 1010 AGCCAAAGAAAGAGAAAAATCCATATACCTGGAAGATCTGATGAAGCCCAAGTGT 1069
QY 1012 TTAACATTTTGAAGACAGCTCAGGGGACAAAAATCA 1048
Db 1070 TTAAGATTCGAAGACATCTTTCATGCGCAAAAGTGA 1106

RESULT 5

US-10-940-774A-5261
; Sequence 5261, Application US/10940774A
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/10/940,774A
; CURRENT FILING DATE: 2004-09-15
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5261
; LENGTH: 1600
; TYPE: DNA
; ORGANISM: Human
US-10-940-774A-5261

Query Match 53.8%; Score 580.6; DB 14; Length 1600;
Best Local Similarity 75.9%; Pred. No. 1.8e-147;

Matches 802; Conservative 0; Mismatches 234; Indels 21; Gaps 6;
QY 1 GTTTCGTGTTCTCGGAATCTCACTGAGCTTATACATCTCGTCTCTG---GGAGCTCG 57
Db 62 GCTTCTGTGTTCTCGGAATCTCGTGTGCTTATGCATCTGGTCTCTTTTGGAGCTAC 121
QY 58 AGTGGATGGGCAATTTGTGACAGCACTATGGGACTGAGTCACACTCTCTCTTGTGTATGGCCC 117
Db 122 AGTGACAGGCAATTTGTGACAGCACTATGGGACTGAGTAACATTCTCTTTGTATGGCCT 181
QY 118 TCCTGCTCTCTGGTGTCTTCCATGAAGAGTCAAGCATATTTCAACAAGATGAGAGAAC 177
Db 182 TCCTGCTCTCTGGTGTCTCTCTGAAAGTTCAAGCTTATTTCAATGAGACTGCAGACC 241
QY 178 TGGCAATGCCATTTTCAAACTCTCAAAACATAAAGCTGATGAGCTGTAGTATTTTGGC 237
Db 242 TGCCATGCCAAATTTGCAAACTCTCAAAACCAAGGCTGAGTGAGCTAGTAGTATTTTGGC 301
QY 238 AGGACCAAGGATAAGCTGTTCTGTATGATATTCAGAGGCAAGAGAACCCCTCAAAATG 297
Db 302 AGGACCAAGGAAAACCTTGGTCTGAAATGAGGTATCTTAGGCAAGAGAAATTTGACAGTG 361
QY 298 TTTCACTCTCAAAATATAAGGGCCGTACAAGCTTTTGAACAAGACAATCTGGACCTTGAGACTCC 357
Db 362 TTTCACTCTCAAGATATATGGGCCGCACAAGTTTGTATCGGACAGTTGGACCTTGAGACTTC 421
QY 358 ACAATGTTTCAGATCAAGGACAGGCGCACATATCACTGTTTCAATTCATTTAAGAGGCCCA 417
Db 422 ACAATCTTCAGATCAAGGACAAAGGCTTGTATCAATGTATCATCCATCACAAAAGGCCCA 481
QY 418 AAGGACTAGTTCCCATGCAACCAATAGTTCTGAGCTATCAGTGTCTGTAATCTTCAGTC 477
Db 482 CAGGAATGATTCGATCCACAGATGAATTTCTGAACTGTCTGAGTCTGTAATCTTCAGTC 541
QY 478 AACCTGAAATAACAGTAACCTTCTAATAGAAACAGAAAAATCTTGGCAATCATAAATTTGACCT 537
Db 542 AACCTGAAATAGTACCAATTTCTAATATAACAGAAAA---TGTGTACATAAAATTTGACCT 598
QY 538 GCTCATCTATACAAGGTTTACCCAGAACCTTAAGAGATGTATTTTTCAGCTTAACACATGAGA 597
Db 599 GCTCATCTATACACCGTTTACCCAGAACCTTAAGAGATGATGTTTGTCTTAAGAACCAAGA 658
QY 598 ATTCAACTACTAAGTATGATCTGTCTGAAGAAAATCTCAAAATATGTGACAGAACTGT 657
Db 659 ATTCAACTACTCGAGTATGATGTTATGTCAGAAATCTCAAGATATATGTCACAGAACTGT 718
QY 658 ACAAGCTTTCTATCAGCTTGCCCTTTTTCAGTCCCTGAAG---CACACAAATGTGAGCGTCT 714
Db 719 ACGAGCTTTTCCATCAGCTTGTCTGTTTCAATCCCTGATGTTTACGAGCAATATGACCATCT 778
QY 715 TTTGTGCCCTGAAACTGGAGACACTGAGATGCTGCTCCCTACCTTTCAATATAGATG 774
Db 779 TCTGTATTTCTGGAACCTGACA---AGACGGCGCTTTTATCTTCACCTTTCTCTATAG--- 832
QY 775 CACAACTTAAGGATAAAGACCTGAAACAGGCCATCTCTCTGGAATGGCGTGTACTTG 834
Db 833 ---AGCTTGAAGACCTCAGCTCCCCAGACCAATCTCTTGGATTAACAGTGTACTTC 889
QY 835 TTAATGTTGTTGTTTGTGGATGGTGTCTTTTAAACACTAAGGAAAAGAGAGAGA 894
Db 890 CAACAGTTTATTTATATGTGTGATGTTTCTGTCTAATTTCTATGGAATGGAAGAGA 949
QY 895 AGCAGCTGGCCCTCTCATGAACTGAAACCATCAAAAGGAGAGAAAAGAGAGACAAAC 954
Db 950 AGCGGCTCGCAACTCTTATAATGTGGAACCAACAACTAAGAGAGGAGAGTGAAC 1009
QY 955 AGACCAACGAAGAGTACATACCGTACCTGAGAGATCTGATGAAGCCCAAGTGTG--- 1011
Db 1010 AGCCAAAGAAAGAGAAAAATCCATATACCTGGAAGATCTGATGAAGCCCAAGTGT 1069
QY 1012 TTAACATTTTGAAGACAGCTCAGGGGACAAAAATCA 1048
Db 1070 TTAAGATTCGAAGACATCTTTCATGCGCAAAAGTGA 1106

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RESULT 6
US-10-302-689A-14809
; Sequence 14809, Application US/10302689A
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Asundi, Vinod
; APPLICANT: Ballinger, Dennis
; APPLICANT: Labat, Ivan
; APPLICANT: Leshkowitz, Dena
; APPLICANT: Liu, Jin
; APPLICANT: Loeb, Deborah
; APPLICANT: Montgomery, Julia, R.
; APPLICANT: Pace, Ann M.
; APPLICANT: Sheridan, James P.
; APPLICANT: Drmanac, Radjoe T.
; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
; FILE REFERENCES: 502CIP
; CURRENT APPLICATION NUMBER: US/10/302,689A
; CURRENT FILING DATE: 2002-11-22
; PRIOR APPLICATION NUMBER: 10/273,573
; PRIOR FILING DATE: 2002-10-18
; PRIOR APPLICATION NUMBER: 10/084,643
; PRIOR FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: 09/989,660
; PRIOR FILING DATE: 2001-11-21
; PRIOR APPLICATION NUMBER: 10/014,487
; PRIOR FILING DATE: 2001-11-08
; PRIOR APPLICATION NUMBER: 09/952,981
; PRIOR FILING DATE: 2001-09-14
; PRIOR APPLICATION NUMBER: 09/922,279
; PRIOR FILING DATE: 2001-08-03
; PRIOR APPLICATION NUMBER: 09/905,059
; PRIOR FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: 09/898,888
; PRIOR FILING DATE: 2001-07-03
; PRIOR APPLICATION NUMBER: 09/919,002
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 09/770,160
; PRIOR FILING DATE: 2001-01-26
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 158931
; SOFTWARE: pt_seq_genes Version 1.0
; SEQ ID NO 14809
; LENGTH: 1926
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)-(1926)
; OTHER INFORMATION: n = a,t,c or g
US-10-302-689A-14809

Query Match 53.8%; Score 580.6; DB 9; Length 1926;
Best Local Similarity 75.9%; Pred. No. 1.9e-147;
Matches 802; Conservative 0; Mismatches 234; Indels 21; Gaps 6;

QY 1 GTTCTGTGTTCTCGGAAATGTCATGAGCTTATACATCTGGTCTCTG---GGAGCTGC 57
DB 62 GCTTCTGTGTTCTCGGAAATGTCATGAGCTTATACATCTGGTCTCTCTTTTGGAGCTAC 121
QY 58 AGTGATGGCCATTTCTGACAGCACTATGGAGCTGAGTACACTCTCCTTGTGATGGCCC 117
DB 122 AGTGGACAGCAATTTGACAGCACTATGGAGCTGAGTAACTCTCTTTTGTGATGGCCT 181
QY 118 TCTGTCTCTGTGTTCTTCCATGAAGAGTCAAGCATATTTCAACAAGACTGGAGAAC 177
DB 182 TCTGTCTCTGTGTTCTTCCATGAAGAGTCAAGCATATTTCAACAAGACTGGAGAAC 241
QY 178 TGCCATGCCATTTTACAACTCTCAAAACATAGCCCTGGATGAGCTGGTAGTATTGTC 237
DB 242 TGCCATGCCAATTTGCAAACTCTCAAAACATAGCCCTGGATGAGCTGGTAGTATTGTC 301
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QY 238 AGGACCAGGATAAGCTGGTTTCTGTATGAGATATTAGAGGCAAGAGAAACCTTCAAAATG 297
DB 302 AGGACCAGGAAACTTGGTTCTGAATGAGTATATTAGCAAGAGAAATTTGACAGTG 361
QY 298 TTCACTCTCAAAATATAAGGCGGTACAAGCTTTGACAAGGACAACTGGACCTGAGACTCC 357
DB 362 TTCAATTCGAATATATGGGCGCACAAAGTTTGTATCGGACAGTTGGACCTGAGACTTC 421
QY 358 ACAATGTTTCAGATCAAGGACAAGGGCACATATACACTGTTTCTTATTAATAAGGGCCCA 417
DB 422 ACAATCTTCAGATCAAGGACAAGGGCTTGTATCAATGTATCATCCATAAAAGGCCCA 481
QY 418 AAGGACTAGTTCCTCATGACCAAAATGAGTTCTGACCTATCATGCTGTGCTTAACCTCAGTC 477
DB 482 CAGGAATGATTCGCATCCACCAAGATGAATCTGAACTGTGAGTCTGCTTAACCTCAGTC 541
QY 478 AACCTGAAAATAACAGTAACCTTCTAATAGAACAGAAAATTTCTGGCATCATAAATTTGACCT 537
DB 542 AACCTGAAAATAGTACCAATTTCTAATAACAGAAAA---TGTGTACATAAAATTTGACCT 598
QY 538 GCTCATCTATACAAGGTTACCCAGACCTTAAGAGAGTGTATTTTCAGCTTAACACTGAGA 597
DB 599 GCTCATCTATACACGGTTTACCAGAACCTTAAGAAGATGAGTGTGTTGCTTAAGAACCAAGA 658
QY 598 ATTCAACTACTAAGTATGATCTGTCATGAAGAAATCTCAAAATAATGTGACAGAACTGT 657
DB 659 ATTCAACTATCAGTATGATGTTATATGAGAAATCTCAAGTATATGTACAGAACTGT 718
QY 658 ACAACGTTTCTATCAGCTTGCCTTTTTCAGTCCCTGGAAG---CACAAATGTGAGCGTCT 714
DB 719 ACGACGTTTCCATCAGCTTGTCTGTTTCTATTCCTGATGTTACGAGCAATATGACCATCT 778
QY 715 TTTGTGCTTGAACCTGGAGACACTGGAGATGCTGCTCTCCCTACCTTTCAATATAGATG 774
DB 779 TCTGTATTCTGGAACCTGACA---AGACGCGGCTTTTATCTTCCACCTTTCTCTATAG--- 832
QY 775 CACAACCTAAGGATAAAGACCTGTAACAGGCGCACCTTCTCTGATTTGGCGTGTACTTG 834
DB 833 ---AGCTTGAGGACCTCAGCTTCCCTCAGACACACATTCCTTGGATTACAGCTGTACTTC 889
QY 835 TAATGTTGTTGTTTGTGGGATGGTGTCTCTTTTAAACACTAAGGAAAGGAAGAAGA 894
DB 890 CAACAGTTATTATATGTTGATGTTTCTGTCTAATCTATGGAATGGAAGAAAGAAGA 949
QY 895 AGCAGCTGGCCCTCTCATGAATGTGAACCATCAAAAGGAGAGAGAGAGAGAGCAAC 954
DB 950 AGCGGCTCGCAACTCTTATAAATGTGAACCAACACATGAGAGAGAGAGAGTGAAC 1009
QY 955 AGACCAACGAAAGAGTACCATACCTGACCTGAGAGATCTGATGAAGCCAGTGTG--- 1011
DB 1010 AGACCAAGAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1069
QY 1012 TTAACATTTTGAAGACAGCTCAGGGGACAAAATCA 1048
DB 1070 TTAAGGTTTGAAGACATCTTCATGCGACAAAAGTCA 1106
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RESULT 7

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US-11-041-164A-33
; Sequence 33, Application US/11041164A
; GENERAL INFORMATION:
; APPLICANT: Mourich, Dan V.
; APPLICANT: Iversen, Patrick L.
; TITLE OF INVENTION: Antisense oligomers and methods for inducing immune tolerance an
; TITLE OF INVENTION: Immunosuppression
; FILE REFERENCE: 50450-8065.US00
; CURRENT APPLICATION NUMBER: US/11/041,164A
; CURRENT FILING DATE: 2005-01-21
; PRIOR APPLICATION NUMBER: US 60/538,655
; PRIOR FILING DATE: 2004-01-23
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: PatentIn version 3.3
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; SEQ ID NO 33
; LENGTH: 2717
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-041-164A-33

Query Match 53.8%; Score 580.6; DB 23; Length 2717;
Best Local Similarity 75.9%; Pred. No. 2.1e-147;
Matches 802; Conservative 0; Mismatches 234; Indels 21; Gaps 6;

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QY 1 GTTCTGTGTTCTCGGGAATGTCATGAGCTTATACATCTGTGTCCTG---GGAGCTGC 57
Db 62 GCTTCTGTGTTCTCGGGAATGTCATGAGCTTATACATCTGTGTCCTGTTTGGAGCTAC 121
QY 58 AGTGGATGGCAATTTCTGACAGCACTATGGCTAGTCACACTCTCCTTGTGATGGCCC 117
Db 122 AGTGGACAGGCATTTGTGACAGCACTATGGCTAGTAAACATCTCTTTGTGATGGCT 181
QY 118 TCTGCTCTCTGTGTTCTTCCATGAAGAGTCAAGCATATTTCAACAAGACTGGAGAAC 177
Db 182 TCTGCTCTCTGTGTTCTTCCATGAAGTCAAGCATATTTCAACAAGACTGGAGAAC 241
QY 178 TGCATGCAATTTTCAAACTCTCAAAACATGAAGCTGAGTGGTAGTATTTTGGC 237
Db 242 TGCATGCAATTTTCAAACTCTCAAAACATGAAGCTGAGTGGTAGTATTTTGGC 301
QY 238 AGGACGAGGATAGCTGGTTCGTATGAGATATTCAGAGGCAAGAGACCTCAAAATG 297
Db 302 AGGACGAGGATAGCTGGTTCGTATGAGATATTCAGAGGCAAGAGAAATTTGACAGTG 361
QY 298 TTCATCTCAAAATATAAGGCGGTACAAAGCTTTTGACAAGGACAACTGGACCTGAGACTCC 357
Db 362 TTCATCTCAAAATATAAGGCGGTACAAAGCTTTTGACAAGGACAACTGGACCTGAGACTTC 421
QY 358 ACAATGTCAGATCAAGGCAAGGCAATATACATCTGTTTCAATTAATAAGGSCCA 417
Db 422 ACAATGTCAGATCAAGGCAAGGCGTTCGTATCAATGTATATCCATCACAAAAACCCCA 481
QY 418 AGGAGTACTTCCATGACCAAAAGTCTGACCTATGACCTATGAGTGTGCTTAACCTCAGTC 477
Db 482 CAGGAATGATGTCATCCACAGATGAAATCTGAACCTGTCAGTGTGCTTAACCTCAGTC 541
QY 478 AACCTGAAATACAGTAACTTTCTAATAGAACAGAAATTTCTGGCATCATAAATTTGACCT 537
Db 542 AACCTGAAATAGTACCAATTTCTAATATAAGAGAAA---TGTTGATACATAAATTTGACCT 598
QY 538 GCTCATCTATACAGGTTACCGAGAACCTTAAGAGATGATATTTTCAGTAAACATGAGA 597
Db 599 GCTCATCTATACAGGTTACCGAGAACCTTAAGAGATGATGTTTGTCTAAGAACCAAGA 658
QY 598 ATTCAACTACTAGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 657
Db 659 ATTCAACTACTAGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 718
QY 658 ACAACCTTTCTATCAGCTTGCCTTTTTCAGTCCCTGAAG---CACAAATGTGAGGCTCT 714
Db 719 ACGACGTTTCCATCAGCTTGCCTTTTTCAGTCCCTGAAG---CACAAATGTGAGGCTCT 778
QY 715 TTTGTCCTGAAACTGGAGACACTGGAGATGCTGCTCCCTCACTTCAATATATAGATG 774
Db 779 TCTGTATTTCTGGAACCTGACA---AGACGCGGCTTTTATCTTCACTTCTCTATAG--- 832
QY 775 CACAACCTAAGGATAAGACCTTGAACAGGCACTTCTCTGAGTTGGCTGTACTTTG 834
Db 833 ---AGCTTGAGGACCTCAGCTTCCCTGAGACACATCTCTTGGATTACAGCTGTACTTC 889
QY 835 TAATGTTGTGTTTGTGGATGGTGTCTTTTAAACACTTAAGGAAAGGAGAGAA 894
Db 890 CAACAGTTATATATGTGTGATGGTTTCTGTCTAATTTCTATGGAATGGAAGAGAGA 949
QY 895 AGCAGCTGCGCCCTCTCATGATATGTAACCAATCAAAAGGAGAGAGAGAGAGAGAGAG 954
Db 950 AGGCGCTCGCAACTCTTATAATGTGGAACCAACCAATGGAGAGGAGAGAGAGAGAGAG 1009
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QY 955 AGACCAACGAAGAGTACCATACACGCTACCTGAGAGATCTGATGAAGCCAGTGTG--- 1011
Db 1010 AGACCAACGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1069
QY 1012 TTAACATTTTGAAGACAGCCTCAGGGGACAAAAATCA 1048
Db 1070 TTAAGATTGGAAGACATCTTCATCGACAAAAAGTGA 1106
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RESULT 8
PCT-US05-18533-16
; Sequence 16, Application PC/TUS0518533
; GENERAL INFORMATION:
; APPLICANT: The Trustees of the University of Pennsylvania
; APPLICANT: Riley, James
; APPLICANT: June, Carl
; APPLICANT: Vonderheide, Robert
; APPLICANT: Aquil, Nicole
; APPLICANT: Suboski, Megan
; TITLE OF INVENTION: NOVEL ARTIFICIAL ANTIGEN PRESENTING CELLS AND USES THEREFOR
; FILE REFERENCE: 053893-5054PCL
; CURRENT APPLICATION NUMBER: PCT/US05/18533
; CURRENT FILING DATE: 2005-06-03
; PRIOR APPLICATION NUMBER: US 60/575,712
; PRIOR FILING DATE: 2004-05-27
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 16
; LENGTH: 2794
; TYPE: DNA
; ORGANISM: Homo sapiens
PCT-US05-18533-16

Query Match 53.8%; Score 580.6; DB 1; Length 2794;
Best Local Similarity 75.9%; Pred. No. 2.1e-147;
Matches 802; Conservative 0; Mismatches 234; Indels 21; Gaps 6;

```
QY 1 GTTCTGTGTTCTCGGGAATGTCATGAGCTTATACATCTGTGTCCTG---GGAGCTGC 57
Db 62 GCTTCTGTGTTCTCGGGAATGTCATGAGCTTATACATCTGTGTCCTTTTGGAGCTAC 121
QY 58 AGTGGATGGCAATTTGTGACAGCACTATGGGACTGAGTCACACTCTCCTTGTGATGGCCC 117
Db 122 AGTGGACAGGCATTTGTGACAGCACTATGGGACTGAGTAAACATTTCTTTTGTGATGGCT 181
QY 118 TCTGCTCTCTGTGTTCTTCCATGAAGAGTCAAGCATATTTCAACAAGACTGGAGAAC 177
Db 182 TCTGCTCTCTGTGTTCTTCCATGAAGATTTCAAGCTTATTTCAATGAGACTGCAGACC 241
QY 178 TGCCATGCCATTTTACAACTCTCAAAACATGAAGCTGAGTGGTAGTATTTTGGC 237
Db 242 TGCCATGCCAATTTGCAAACTCTCAAAACCAAGCTGAGTGGTAGTATTTTGGC 301
QY 238 AGGACGAGGATAAGCTGGTTCGTATGAGATATTCAGAGGCAAGAGAACCTTCAAAATG 297
Db 302 AGGACGAGGATAAGCTGGTTCGTATGAGATATTCAGGCAAGAGAAATTTGACAGTG 361
QY 298 TTCATCTCAAAATATAAGGCGGTACAAAGCTTTGACAAGGCAAGACTGGAGACTCC 357
Db 362 TTCATCTCAAAATATAAGGCGGTACAAAGCTTTGATTCGAGACTTGGACCTTGGAGACTTC 421
QY 358 ACAATGTTTCAGATCAAGGACAGGCAATATCAGTGTTCATTTCAATTAATAAGGSCCA 417
Db 422 ACAATGTTTCAGATCAAGGACAGGCGCTTGTATCAATGTATATCCATCAAAAAAGGCCCA 481
QY 418 AAGGACTAGTTCCTCCATGACCAAAATGAGTTCGTGACTATGAGTGTGCTTAACCTCAGTC 477
Db 482 CAGGAATGATGTCATCCACAGATGAAATTTCTGAACTGTGAGTGTGCTTAACCTCAGTC 541
QY 478 AACCTGAAATACAGTAACTTTCTAATAGAACAGAAATTTCTGGCATCATAAATTTGACCT 537
Db 542 AACCTGAAATAGTACCAATTTCTAATATAAGAGAAA---TGTTGATACATAAATTTGACCT 598
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QY 538 GCTCATCTATACAAAGGTTACCCAGAACCTTAAGAGAGATGTAATTTTCAGCTAAACACTGAGA 597
DB 599 GCTCATCTATACAAAGGTTACCCAGAACCTTAAGAGAGATGTAATTTTCAGCTAAACACTGAGA 658
QY 598 ATTCAACTACTAAGTATGATCTGTCATGAGAAATCTCAAAATATATGACAGAACTGT 657
DB 659 ATTCAACTACTAAGTATGATGTTGTTATGAGAAATCTCAAAATATATGACAGAACTGT 718
QY 658 ACAACGTTTCTATCAGCTTCCCTTTTTCAGTCCCTGAAG---CACAAATGTGAGGCTCT 714
DB 719 ACGACGTTTCCATCAGCTTGTCTGTTTCATCTCCCTGATGTTAGCAGCAATATGACCATCT 778
QY 715 TTGTGCGCTGAACTGGAGACACTGGAGATGCTCTCCCTACCTTTCAATATATAGATG 774
DB 779 TCTGTATTTCTGGAACCTGACA---AGACGGGCTTTTATCTCCCTCTCTATAG--- 832
QY 775 CACAACCTAAGGATAAGACCTTGAACAGAGCCACTTCTCTGATTTGGGCTGTACTTG 834
DB 833 ---AGCTTGAGGACCTTCAAGCTTCCCTCCAGACACATTTCTTGGATTACAGCTGTACTTC 889
QY 835 TAATGTTTGTGTTTGTGCGATGCTGTCCTTTTAAACACTTAAGGAAAGGAAAGCA 894
DB 890 CAACAGTTATATATGTTGATGTTTCTGCTTAATTTCTATGGAATGGAAGAGAGCA 949
QY 895 AGCAGCTTGGCCCTCTCATGATGTGAACCACTCAAAAGGAGAGAGAGAGCAAAAC 954
DB 950 AGCGGCTCGCACTCTTAAATGTTGAACCACTCAAAAGGAGAGAGAGAGAGCA 1009
QY 955 AGACCAAGAAAGAGTACATACACGTTACCTGAGAGATCTGATGAAGCCGAGTGTG--- 1011
DB 1010 AGACCAAGAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1069
QY 1012 TTAACATTTTGAAGACAGCTCAGGGGACAAATCA 1048
DB 1070 TTAAAGTTTGAAGACATCTTTCATGCAAAAGTGA 1106

RESULT 9

PCT-US05-18790-54
; Sequence 54, Application PC/TUS0518790
; GENERAL INFORMATION:
; APPLICANT: PRESIDENT AND FELLOWS OF HARVARD COLLEGE
; TITLE OF INVENTION: METHODS OF MODULATING THE REPRODUCTIVE ENDOCRINE SYSTEM
; FILE REFERENCE: HUI-055PC
; CURRENT APPLICATION NUMBER: PCT/US05/18790
; CURRENT FILING DATE: 2005-06-06
; PRIOR APPLICATION NUMBER: 60/575,143
; PRIOR FILING DATE: 2004-05-28
; NUMBER OF SEQ ID NOS: 99
; SOFTWARE: PatentIn 3.3
; SEQ ID NO 54
; LENGTH: 2794
; TYPE: DNA
; ORGANISM: Homo sapiens
PCT-US05-18790-54

Query Match 53.8%; Score 580.6; DB 1; Length 2794;

Best Local Similarity 75.9%; Pred. No. 2.1e-147;

Matches 802; Conservative 0; Mismatches 234; Indels 21; Gaps 6;

QY 1 GTTCTGTGTTCTCTCGGATGTCACCTGAGCTATACATCTGCTCTG---GGAGCTGC 57
DB 62 GCTTCTGTGTTCTCTCGGATGTCGCTGCTTATGCACTGCTGCTCTTTTGGAGCTAC 121
QY 58 AGTGGATGGCACTTTGTGACAGCACTATGGAGCTGAGTCACACTCTCTTGTGATGGCC 117
DB 122 AGTGGACAGCACTTTGTGACAGCACTATGGAGCTGAGTCACACTCTCTTGTGATGGCC 181
QY 118 TCTGCTCTCTGTTTCTTCCATGAAGAGTCAAGCATATTTCAACAGACTGGAGAAC 177
DB 182 TCTGCTCTCTGTTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 241

QY 178 TGCCATGCCATTTTACAAACTCTCAAAACATAAGCCTGATGATGAGCTGGTAGTATTTTGGC 237
DB 242 TGCCATGCCAATTTGCAAACTCTCAAAACCAAAGCCTGATGAGCTAGTAGTATTTTGGC 301
QY 238 AGACCCAGGATTAAGCTGGTTCGTATGAGATATTCAGAGGCAAGAGAAACCCCTCAAAATG 297
DB 302 AGGACCAGGAAACTTTGGTTCGAAATGAGGTATCTTAGGCAAGAGAAATTTGACAGTG 361
QY 298 TTCTATCTCAAAATATAGGCGCTGACAAAGCTTTGACAAAGGACAACTGCGCCCTGAGACTCC 357
DB 362 TTCTATTTCCAAGTATATGGGCGGCAAGTTTTGATTCGGACAGTTGGACCTGAGACTTC 421
QY 358 ACAATGTTTCAGATCAAGGCAAGGGCACAATATACATCTGTTTTCATTTATAAAGGGCCCA 417
DB 422 ACAATCTTCAGATCAAGGCAAGGGCTTGTATCAATGATATCATCCATCAAAAGAGCCCA 481
QY 418 AAGGACTAGTTCCTCATGCAACCAATGAGTTCTGACCTATGAGTGTCTGCTTAACCTCAGTC 477
DB 482 CAGGAATGATTCGCAATCCACAGATGAATTTCTGAACTGTGAGTGTCTGCTTAACCTCAGTC 541
QY 478 AACCTGAAATACAGTAACTTCTTAATAGAACAGAAATTTCTGGCATCATAAATTTGACCT 537
DB 542 AACCTGAAATAGTACCAATTTCTTAATATACAGAAATTTCTGTTACATATAATTTGACCT 598
QY 538 GCTCATCTATACAAAGTTTACCCAGAACCTTAAGGAGATGTAATTTTCAGCTAAACACTGAGA 597
DB 599 GCTCATCTATACAAAGTTTACCCAGAACCTTAAGGAGATGTAATTTTCAGCTAAACACTGAGA 658
QY 598 ATTCAACTACTAAGTATGATCTGTCATGAAGAAATCTCAAAATATATGAGACAGAACTGT 657
DB 659 ATTCAACTACTAAGTATGATGTTTATGACAGAAATCTCAAGATATATGTCACAGAACTGT 718
QY 658 ACAAGTTTCTATCAGCTTGCCTTTTTCAGTCCCTGAAG---CACAAATGTGAGGCTCT 714
DB 719 ACGACGTTTCCATCAGCTTGTCTGTTTTCATTTCCCTGATGTTACGAGCAATATGACCATCT 778
QY 715 TTGTGCGCTGAAACCTGGAGACACTGAGATGCTGCTCTCCCTACCTTTCAATATATAGATG 774
DB 779 TCTGTATTTCTGGAACCTGACA---AGACGGGCTTTTATCTTCACCTTTCTCTATAG--- 832
QY 775 CACAACCTAAGGATAAAGACCTGAGCAAGGCACTTCTCTGATTTGGGCTGTACTTG 834
DB 833 ---AGCTTGAGGACCTTCAAGCTTCCCTCCAGACCACTTCTTGGATTACAGCTGTACTTC 889
QY 835 TAATGTTTGTGTTTGTGCGATGCTGCTCTTTTAAACACTTAAGGAAAGGAAAGCA 894
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QY 895 AGCAGCTTGGCCCTCTCATGATGTGAACCACTCAAAAGGAGAGAGAGAGAGCAAAAC 954
DB 950 AGCGGCTCGCACTCTTAAATGTTGAACCACTCAAAAGGAGAGAGAGAGAGAGAG 1009
QY 955 AGACCAAGAAAGAGTACCATACCACTGAGAGATCTGATGAAGCCGAGTGTG--- 1011
DB 1010 AGACCAAGAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1069
QY 1012 TTAACATTTTGAAGACAGCTCAGGGGACAAATCA 1048
DB 1070 TTAAAGTTTGAAGACATCTTTCATGCAAAAGTGA 1106

RESULT 10

US-11-137-807-16
; Sequence 16, Application US/11137807
; GENERAL INFORMATION:
; APPLICANT: Riley, James
; APPLICANT: June, Carl
; APPLICANT: Vonderheide, Robert
; APPLICANT: Aquil, Nicole
; APPLICANT: Suhoski, Megan
; TITLE OF INVENTION: NOVEL ARTIFICIAL ANTIGEN PRESENTING CELLS AND USES THEREFOR
; FILE REFERENCE: 053893-5054US1

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; CURRENT APPLICATION NUMBER: US/11/137,807
; CURRENT FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/575,712
; PRIOR FILING DATE: 2004-05-27
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 16
; LENGTH: 2794
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-137-807-16

Query Match      53.8%; Score 580.6; DB 23; Length 2794;
Best Local Similarity 75.9%; Pred. No. 2.1e-147;
Matches 802; Conservative 0; Mismatches 234; Indels 21; Gaps 6;

QY 1 GTTCTGTGTTCTCGGGAATGTCACTGAGCTTATACATCTGTGTCCTG---GGAGCTGC 57
Db 62 GCTTCTGTGTTCTCGGGAATGTGCTGTGCTTATGATCATCTGTCTCTTTTGGAGCTAC 121
QY 58 AGTGGATGGCAATTTGTGACAGCACTATGGAGTCACTGAGTCACACTCTCTTGTGATGGCC 117
Db 122 AGTGGACAGCAATTTGTGACAGCACTATGGAGTCACTGAGTCACTCTCTTGTGATGGCC 181
QY 118 TCTGTCTCTGTGTTCTTCCATGAAGAGTCAAGCATATTTCAACAGACTGGAGAAC 177
Db 182 TCTGTCTCTGTGTTCTTCCATGAAGATTCAGCTTATTTCAATGAGACTGCGAGCC 241
QY 178 TGCATGCGCAATTTTCAAACTCTCAAAACATAGCCCTGATGAGCTGGTAGTATTTTGGC 237
Db 242 TGCATGCGCAATTTTCAAACTCTCAAAACATAGCCCTGATGAGCTGGTAGTATTTTGGC 301
QY 238 AGGACGAGTATAGCTGTTCTGTATGAGTATTTAGAGGCAAGAGACCCCTCAAAATG 297
Db 302 AGGACGAGTATAGCTGTTCTGTATGAGTATTTAGAGGCAAGAGATTTTGACAGTG 361
QY 298 TTTATCTCAAAATATAAGGCGCGTACAAAGCTTTTGACAAAGCAACTGGACCCCTGAGACTCC 357
Db 362 TTTATTTCAAGTATATAGGCGCGCAAGTTTGTGATTCGACAGTTGGACCCCTGAGACTTC 421
QY 358 ACATGTTTCAGATCAAGGCAAGGGCAATATACATCTGTTTCAATTCATTAATAAGGGCCCA 417
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QY 418 AAGGACTAGTTCCATGACCAAAATGATGTTCTGACCTATGAGTGTGCTTAATCTTCACTC 477
Db 482 CAGGAATGATTCGATCCACAGATGAATCTGAACTGTCAGTGTGCTTAATCTTCACTC 541
QY 478 AACCTGAAATTAACAGTAATCTTAATAGAACAGAAAATTTCTGGCATCATATAATTTGACCT 537
Db 542 AACCTGAAATTAACAGTAATTTCTTAATTAACAGAAAA---TGTGTACATAAATTTGACCT 598
QY 538 GCTCATCTATAAAGGTTACCGAGAACCTTAAGAGATGTATTTTCAGCTAAACACTGAGA 597
Db 599 GCTCATCTATAAAGGTTACCGAGAACCTTAAGAGATGTATTTTCAGCTAAACACTGAGA 658
QY 598 ATTCAACTACTAGTATGATCTGTCATGAAGAAATCTCAAAATATATGTGACAGACTGT 657
Db 659 ATTCAACTACTAGTATGATGTATTTATGAGAAATCTCAAGATAATGTACAGAACTGT 718
QY 658 ACAACGTTTCTATCAGCTTGCCTTTTTCAGTCCTCGAAG---CACACAATGTGAGCGTCT 714
Db 719 ACGACGTTTCTATCAGCTTGTCTGTTTCTATTCCTCTGATGTATGAGCAATATGACCATCT 778
QY 715 TTTGTGCGCTTGAACCTGGAGACACTGGAGATGCTGCTCTCCCTACCTTTCAATATAGATG 774
Db 779 TCTGTATTTCTGGAACCTGACA---AGACGCGGCTTTTATCTTCCACCTTTCTCTATAG--- 832
QY 775 CACAACCTAAGGATTAAGACCTGGAACAGGCGCACTTCTCTGATTTGGCGCTGTACTTG 834
Db 833 ---AGCTTGAGGACCCCTGAGCTTCCCGACGACCAATCTCTTGATATACAGCTGTACTTC 889
QY 835 TAATGTTTGTGTTTGTGGGATGGTGTCTTTTAAACACTTAAGGAAAAAGGAGGAAGA 894
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Db 890 CAACAGTTTATTATATATGTGTGATGTTTCTGTCTAAATTTCTATGGAATGGAAGAAGA 949
QY 895 AGCAGCCTGGCCCTCTCTCATGAATGTGAAACCATCAAAAGGAGAGAGAGAGCAAC 954
Db 950 AGCGCCTCGCAACTCTTTATAAATGTGGAACCAACACAAATGGAGAGGAGAGAGTGAAC 1009
QY 955 AGACCAACGAAAGAGTACCATACACAGTACCTGAGAGATCTGATGAAGCCCAAGTGTG--- 1011
Db 1010 AGACCAAGAAAGAGAAAAATCCATATACCTGAAAGATCTGATGAAGCCCAAGTGTGTT 1069
QY 1012 TTAACATTTTGAAGACAGCCTCAGGGGACAAAAATCA 1048
Db 1070 TTAAGATTCGAAGACATCTTTCATGCGCAAAAAGTGA 1106

RESULT 11
US-10-302-689A-57885
; Sequence 57885, Application US/10302689A
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Asundi, Vinod
; APPLICANT: Ballinger, Dennis
; APPLICANT: Labat, Ivan
; APPLICANT: Leshkowitz, Dena
; APPLICANT: Liu, Jin
; APPLICANT: Loeb, Deborah
; APPLICANT: Montgomery, Julia, R.
; APPLICANT: Pace, Ann M.
; APPLICANT: Sheridan, James P.
; APPLICANT: Drmanac, Radolje T.
; TITLE OF INVENTION: NOVEL NUCLEIC ACIDS AND POLYPEPTIDES
; FILE REFERENCE: 502CIP
; CURRENT APPLICATION NUMBER: US/10/302,689A
; PRIOR FILING DATE: 2002-11-22
; PRIOR APPLICATION NUMBER: 10/273,573
; PRIOR FILING DATE: 2002-10-18
; PRIOR APPLICATION NUMBER: 10/084,643
; PRIOR FILING DATE: 2002-02-26
; PRIOR APPLICATION NUMBER: 09/989,660
; PRIOR FILING DATE: 2001-11-21
; PRIOR APPLICATION NUMBER: 10/014,487
; PRIOR FILING DATE: 2001-11-08
; PRIOR APPLICATION NUMBER: 09/952,981
; PRIOR FILING DATE: 2001-09-14
; PRIOR APPLICATION NUMBER: 09/922,279
; PRIOR FILING DATE: 2001-08-03
; PRIOR APPLICATION NUMBER: 09/905,059
; PRIOR FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: 09/898,888
; PRIOR FILING DATE: 2001-07-03
; PRIOR APPLICATION NUMBER: 09/919,002
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 09/770,160
; PRIOR FILING DATE: 2001-01-26
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 158931
; SOFTWARE: pt SEQ_genes Version 1.0
; SEQ ID NO 57885
; LENGTH: 1830
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-302-689A-57885

Query Match      49.4%; Score 533.2; DB 9; Length 1830;
Best Local Similarity 75.3%; Pred. No. 1.6e-134;
Matches 735; Conservative 0; Mismatches 223; Indels 18; Gaps 5;

QY 79 GCATATGGAGTCACTGAGTCACTCTCTTGTGATGGCCCTCTCTGCTCTCTGTTTCTT 138
Db 120 GCATATGGAGTCACTGAGTCACTCTCTTGTGATGGCCCTCTCTGCTCTCTGTTGCTC 179
QY 139 CCATGAAGAGTCAAGCATATTTCAACAAGACTGGAGAACTGCCATGCCATTTTACAACT 198
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Db 180 CTCTGAAGATTCAGGCTTATTTCAATGAGACTGCAGACCTGCCATGCCAATTTGCAAACT 239
Qy 199 CTCAAAACATAACCTCGGATGAGCTGCTAGTATTTTGGCAGGACCAAGGATAAGCTGGTTC 258
Db 240 CTCAAAACCAAGCCCTGAGTGAAGTATTTTGGCAGGACCAAGGATAAGCTGGTTC 299
Qy 259 TGTATGAGATATTCAGAGGCAAGAGAACCTCAAAATGTTTCATCTCAAAATATAAGGGCC 318
Db 300 TGAATGAGGTATATCTAGGCAAGAGAAATTTGACAGTGTTCATTTCCAAATATATGGGCC 359
Qy 319 GTACAAGCTTTGACAGGACCACTGAGACCTGAGACTCACAATGTTTCAGATCAAGGACA 378
Db 360 GCACAAAGTTTGAATTCGAGCAGTGTGACCTCGAGACTTCACAATCTTCAGATCAAGGACA 419
Qy 379 AGGGCACAATATCTCTGTTTCATTTATATAAGGGCCCAAGGACCTAGTTCCTCATGCCACC 438
Db 420 AGGGCTTGTATCAATGATATCAATCCATCAAAAGCCCAAGGATGATTCGATCCACC 479
Qy 439 AAATGAGTTCTGACCTATCAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 498
Db 480 AGATGAATTTCTGAATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 539
Qy 499 CTAATAGACAGAAATTTCTGGCATCATAAATTTGACCTGCTGCTGCTGCTGCTGCTGCTGCT 558
Db 540 CTAATATAACAGAAAA---TGTGTACATAAAATTTGACCTGCTGCTGCTGCTGCTGCTGCTGCT 596
Qy 559 CAGAACCTAAGGAGATGATTTTTCAGCTAAACACACAGAGAAATTCACCTGCTGCTGCTGCTGCT 618
Db 597 CAGAACCTAAGGAGATGATGTTTTCAGCTAAACACACAGAGAAATTCACCTGCTGCTGCTGCTGCT 656
Qy 619 CTGTATGAAGAAATCTCAAAATAATGTGACAGAACTGTACAACTGTTTCTATCAGCTTGC 678
Db 657 GTATATGACAGAAATCTCAAGATAATGTGACAGAACTGTACAGCTGTTTCCATCAGCTTGT 716
Qy 679 CTTTTCAGTCCCTGAAG---CACACAATGTGAGGCTCTTTTGTGCTGCTGCTGCTGCTGCTGCTGCT 735
Db 717 CTGTTTTCATTCCTGATGTTTACGAGCAATATGACCACTCTCTGTATTTCTGGAACCTGACA 776
Qy 736 CACTGAGATGCTGCTCCTCCCTACCTTCAATATAGATGCACAACTTAAGGATAAGACC 795
Db 777 ---AGACGGGCTTTTATCTTCCACCTTCTCTATAG-----AGCTTGAGGACCTTCAGC 827
Qy 796 CTGAAACAGGCCACTTCTCTGATGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 855
Db 828 CTCCTCCAGACCACTCTCTGATTTAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 887
Qy 856 GGATGGTGTCTTTTAAAAACATAAGGAAAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 915
Db 888 TGGTTTCTGTCTAATTTCTATGGAATGGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 947
Qy 916 AATGTGAACCAATCAAAAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 975
Db 948 AATGTGAACCAATCAAAAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1007
Qy 976 ACCACGTACTGAGAGATCTGATGAAGCCAGTGTG---TTAACATTTTGAAGACAGCT 1032
Db 1008 TCCATATACCTGAAAGATCTGATGAAGCCAGGCTGTTTAAAGTTCGAAGACATCTT 1067
Qy 1033 CAGGGGACAAAAATCA 1048
Db 1068 CATGCGACAAAGTGA 1083
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RESULT 12

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PCT-US05-18790-56
; Sequence 56, Application PC/TUS0518790
; GENERAL INFORMATION:
; APPLICANT: PRESIDENT AND FELLOWS OF HARVARD COLLEGE
; TITLE OF INVENTION: METHODS OF MODULATING THE REPRODUCTIVE ENDOCRINE SYSTEM
; FILE OF INVENTION: BY MODULATION OF TNF-alpha ACTIVITY
; FILE REFERENCE: HUI-055PC
; CURRENT APPLICATION NUMBER: PCT/US05/18790
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; CURRENT FILING DATE: 2005-06-06
; PRIOR APPLICATION NUMBER: 60/575,143
; PRIOR FILING DATE: 2004-05-28
; NUMBER OF SEQ ID NOS: 99
; SOFTWARE: PatentIn 3.3
; SEQ ID NO 56
; LENGTH: 2781
; TYPE: DNA
; ORGANISM: Homo sapiens
PCT-US05-18790-56
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Query Match 49.4%; Score 533.2; DB 1; Length 2781;
Best Local Similarity 75.3%; Pred. No. 1.8e-134;
Matches 735; Conservative 0; Mismatches 223; Indels 18; Gaps 5;
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Qy 79 GCACATATGGGACTGAGTACACCTCTCTGTCATGCGCCCTCTGCTCTCTGCTGCTGCTTCTT 138
Db 130 GCACATATGGGACTGAGTAACTTCTTTGTATGGCCCTCTGCTCTCTGCTGCTGCTC 189
Qy 139 CCATGAAGAGTCAAGCATATTTTCAACAAGACTTGGAGAACTGCCATGCCAATTTTACAAACT 198
Db 190 CTCTGAAGATTCAAGCTTATTTCAATGAGACTGCAGACCTGCCATGCCAATTTGCAAACT 249
Qy 199 CTCAAAAACATTAAGCCCTGGAATGAGCTGCTAGTATTTTGGCAGGACCAAGGATAAGCTGGTTC 258
Db 250 CTCAAAAACCAAGCCCTGAGTGAAGTATTTTGGCAGGACCAAGGATAAGCTGGTTC 309
Qy 259 TGTATGAGATATTTCAAGGCAAGAGAACCTTCAAAATGTTTCTCAATATATAAGGGCC 318
Db 310 TGAATGAGGTATACCTTAGGCAAAAGAGAAATTTGACAGTGTTCATTTCCAAATATATGGGCC 369
Qy 319 GTACAAGCTTTTGAAGAAGGACAACTGCAGCCCTGAGACTCCACAATGTTTCAGATCAAGGACA 378
Db 370 GCACAAGTTTGTATTCGACAGCTTGGACCTGAGACTTCACAATCTTCAGATCAAGGACA 429
Qy 379 AGGGCACAATATCACTGTTTTCATTTATTAAGAGGCCCAAGAGACTAGTTCCTCATGCACTCACC 438
Db 430 AGGGCTTGTATCAATGTATCATCCATCACAAAAGCCACAGAGATGATTCGCATCCACC 489
Qy 439 AAATGAGTCTGACCTATCAGTGTGCTTAACCTCAGTCAACCTGAAATTAACAGTAACTT 498
Db 490 AGATGAATTTCTGAATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 549
Qy 499 CTAATAGAACAGAAAAATCTGGCATCATAAATTTGACCTGCTCATCTATACAAGGTTACC 558
Db 550 CTAATATAACAGAAAA---TGTGTACATAAAATTTGACCTGCTCATCTATACAGGTTACC 606
Qy 559 CAGAACCTTAAGGAGATGATTTTTCAGCTAACAACCTGAGAAATTCAACTACTAAGTATGATA 618
Db 607 CAGAACCTTAAGGAGATGAGTGTGTTTGTAAAGAACCAAGAAATTCAACTATCGAGTATGATG 666
Qy 619 CTGTCATGAAGAAATCTCAAAATATGACAGAACTGTACAACTGTAACCTTCTATCAGCTTGC 678
Db 667 GTATATGCAAGAAATCTCAAGATAATGTCAAGAACTGTACAGCTGTTCCATCAGCTTGT 726
Qy 679 CTTTTCAGTCCCTCAAG---CACACAATGTGAGGCTCTTTTGTGCTGCTGCTGCTGCTGCTGCTGCT 735
Db 727 CTGTTTCATTTCCCTGATGTTAGGAGCAATATGACCATCTTCTGTATTTCTGGAACCTGACA 786
Qy 736 CACTGAGATGCTGCTCTCCCTTACCTTTCAATATAGATGCACAACTTAAGGATAAGAGACC 795
Db 787 ---AGACGGGCTTTTATCTTCCACCTTCTCTATAG-----AGCTTGAGGACCTTCAGC 837
Qy 796 CTGAAACAGGCCACTTCTCTGGATGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 855
Db 838 CTCCTCCAGACCACTTCTTGGATTACAGCTGTATCTTCCAAAGCTTATATATGTTGTA 897
Qy 856 GGATGGTGTCTTTTAAAAACACTTAAGGAAAAAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 915
Db 898 TGGTTTCTGCTAATTTCTATGGAATGGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 957
Qy 916 AATGTGAACCAATCAAAAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 975
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Db 958 AATGTGGAACCAACACATGAGAGGAGAGAGTGAACAGACCAAGAAAGAGAAAAA 1017
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Db 1018 TCCATATACCTGAAGATCTGATGAAGCCCAAGCTGTGTTTAAAGATTGGAAGACATCTT 1077
Qy 1033 CAGGGGACAAAATCA 1048
Db 1078 CATGCGACAAAAGTGA 1093

RESULT 13

US-11-170-797-2
; Sequence 2, Application US/11170797
; GENERAL INFORMATION:
; APPLICANT: Lechler, Robert
; APPLICANT: Rogers, Nichola
; APPLICANT: Dorling, Anthony
; APPLICANT: ML Laboratories PLC
; TITLE OF INVENTION: IMPROVEMENT OF TOLERANCE TO A ZENOGRFT
; FILE REFERENCE: 5585-59112-02
; CURRENT APPLICATION NUMBER: US/11/170,797
; PRIOR FILING DATE: 2005-06-28
; PRIOR APPLICATION NUMBER: US 09/868,605
; PRIOR FILING DATE: 2001-06-19
; PRIOR APPLICATION NUMBER: PCT/GB99/04200
; PRIOR FILING DATE: 1999-12-17
; PRIOR APPLICATION NUMBER: 9827921.9
; PRIOR FILING DATE: 1998-12-19
; PRIOR APPLICATION NUMBER: 9925015.1
; PRIOR FILING DATE: 1999-10-23
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: Patent in Ver. 2.1
; SEQ ID NO 2
; LENGTH: 972
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-170-797-2

Query Match 48.9%; Score 528.2; DB 23; Length 972;

Best Local Similarity 75.2%; Pred. No. 3e-133;
Matches 730; Conservative 0; Mismatches 223; Indels 18; Gaps 5;

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Db 1 ATGGGCTGAGTAAACATCTCTTGTGATGGCCCTCCTGCTCTCTGTTCTTCCATG 60
Qy 144 AAGAGTCAAGCATATTTCAACAGACTGGAGAACTGCCATGCCATTTTCAAACTCTCAA 203
Db 61 AAGATTCAAGCTTATTTCAATGAGACTGCGAGACCTGCCATGCCAATTTGCAAACTCTCAA 120
Qy 204 AACATAAGCTGATGAGCTGGTAGTATTTTGGCAGACCAAGATAGCTGGTCTGTAT 263
Db 121 AACCAAAGCTGAGTGAAGTATTTTGGCAGACCAAGATAGCTGGTCTGTAT 180
Qy 264 GAGATATTGAGCGCAAGAGAACCTTCAAAATTTTATCTCAAAATAGGCGCTGACA 323
Db 181 GAGTATATTAGCAAGAGAAATTTGACAGTGTTCATTCAGATATATGGGCCACACA 240
Qy 324 AGCTTTTCAAGGACAACTGGACCTGAGACTCCACAATTTTCAAGATCAAGGCAAGGGC 383
Db 241 AGTTTTCAGTTCGAGCAGTTGGACCTGAGACTTCAACAATCTTCAGATCAAGGCAAGGGC 300
Qy 384 ACATATCACTGTTTTCATTTATATAAGGCGCCCAAGGACTAGTTCCCATGCAACAAATG 443
Db 301 TTGTATCAATGTATCATCCATCAAAAAGCCCAAGGAATGATTCGATCCACCAAGATG 360
Qy 444 AGTTCTCACTATCAGTCTGCTTAACTTCAGTCAACCTCAAAATAACAGTAATCTTAAAT 503
Db 361 AATTTGAACTGTCAGTCTGCTTAACTTCAGTCAACCTCAAAATAACAGTAATCTTAAAT 420
Qy 504 AGAACAGAAAATTTCTGGCATCATAAATTTGACCTGCTCATCTATACAAAGTTTACCCAGAA 563

Db 421 ATAAACAGAAA---TGTGTACATAAAATTTGACCTGCTCATCTATACACGGTTACCCAGAA 477
Qy 564 CCTAAGGAGATGTAATTTTCAGCTAAACACATCAGAAATTTCACTACTAAGTAGTACTGTC 623
Db 478 CCTAAGGAGATGAGTGTGTTTCTAAGAACCAAGAAATTTCAACTATCGAGTAGTATGTTGTT 537
Qy 624 ATGAAGAAATCTCAAAATTAATGTGACAGAACTGTACAAACGTTTCTATCAGCTTCCCTTTT 683
Db 538 ATGCAGAAATCTCAAGATATATGTACAGAACTGTACGACGTTTCCATCAGCTTCTGTGT 597
Qy 684 TCAGTCCCTGAAAG---CACACAATGTGAGCTCTTTTGTGCGCCCTGAAACTGGAGACACTG 740
Db 598 TCATTCCCTGATGTTACGAGCAATATGACCATCTTCTGTATTTCTGGAACACTGACA---AG 654
Qy 741 GAGATGCTGCTCTCCCTACCTTTCAATATAGATGCACAACTTAAGGATAAAGACCCCTGAA 800
Db 655 ACGCGGCTTTTATCTTACCTTTCTCTATAG-----AGCTTGAGGACCCCTCAGCCTCCC 708
Qy 801 CAAGGCCACTTCTCTGATTGCGGCTGTACTTGAATTTGTTTGTGTTTGTGGGATG 860
Db 709 CCAGACCACATCTCTGATTTACAGCTGACTTCCACAGTTATATATGTGTGATGTT 768
Qy 861 GTGTCCTTTTAAACACATTAAGAAAAGGAAGAGAGAGCTGCGCCCTCTCATGAATGT 920
Db 769 TTCTGCTAATTTCTATGAAAATGGAAGAAGAGCGGCTCGCAACTCTTATAAATGT 828
Qy 921 GAAACCATCAAAAGGAGAGAAAGAGAGCAACAGACCAACAGAAAGAGTAGTACCAC 980
Db 829 GGAACCAACAATGAGAGAGAGAGAGTGAACAGACCAAGAAAGAGAAAATCCAT 888
Qy 981 GTACCTGAGAGATCTGATGAAGCCCGAGTGTG---TTAACTTTTGAAGACAGCTCAGGG 1037
Db 889 ATACCTGAAGATCTGATGAAGCCCGAGTGTGTTTAAAGTTTGAAGACATCTTCATGC 948
Qy 1038 GACAAAATCA 1048
Db 949 GACAAAAGTGA 959

RESULT 14

US-10-960-855-17
; Sequence 17, Application US/10960855
; GENERAL INFORMATION:
; APPLICANT: ALBANI, SALVATORE
; TITLE OF INVENTION: METHODS FOR ISOLATION, QUANTIFICATION, CHARACTERIZATION
; TITLE OF INVENTION: AND MODULATION OF ANTIGEN-SPECIFIC T CELLS
; FILE REFERENCE: AND-1001-CP2
; CURRENT APPLICATION NUMBER: US/10/960,855
; CURRENT FILING DATE: 2004-10-06
; PRIOR APPLICATION NUMBER: 60/510,645
; PRIOR FILING DATE: 2003-10-10
; PRIOR APPLICATION NUMBER: 09/756,983
; PRIOR FILING DATE: 2001-01-09
; PRIOR APPLICATION NUMBER: 09/421,506
; PRIOR FILING DATE: 1999-10-19
; PRIOR APPLICATION NUMBER: PCT/US99/2466
; PRIOR FILING DATE: 1999-10-19
; PRIOR APPLICATION NUMBER: 60/105,018
; PRIOR FILING DATE: 1998-10-20
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: Patent in Ver. 3.3
; SEQ ID NO 17
; LENGTH: 1056
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: fusion construct with human and bacterial
; OTHER INFORMATION: sequences
US-10-960-855-17

Query Match 39.8%; Score 429.6; DB 12; Length 1056;
Best Local Similarity 79.3%; Pred. No. 2.5e-106;

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: August 17, 2005, 18:49:39 ; Search time 23 Seconds
(without alignments)
1067.806 Million cell updates/sec

Title: US-09-303-510-6
Perfect score: 1737
Sequence: 1 MGICDSTMGSLTLLVMALL.....RSDEAQCVMILKTASGDKNQ 329

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA.*

- 1: /cgn2_6/prodata/1/iaa/5A COMB.pep.*
- 2: /cgn2_6/prodata/1/iaa/5B COMB.pep.*
- 3: /cgn2_6/prodata/1/iaa/6A COMB.pep.*
- 4: /cgn2_6/prodata/1/iaa/6B COMB.pep.*
- 5: /cgn2_6/prodata/1/iaa/PCTUS COMB.pep.*
- 6: /cgn2_6/prodata/1/iaa/backfiles1.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1737	100.0	329	4 US-09-651-200-18	Sequence 18, Appl
2	1737	100.0	329	4 US-09-303-040-6	Sequence 6, Appli
3	1372	79.0	329	4 US-09-651-200-19	Sequence 19, Appl
4	1157	66.6	325	4 US-09-651-200-20	Sequence 20, Appl
5	932	53.7	372	4 US-09-949-016-11132	Sequence 11132, A
6	903	52.0	329	2 US-08-456-104-2	Sequence 2, Appli
7	903	52.0	329	2 US-08-101-624-2	Sequence 2, Appli
8	903	52.0	329	3 US-08-479-744A-2	Sequence 2, Appli
9	903	52.0	329	3 US-08-280-757B-2	Sequence 2, Appli
10	903	52.0	329	3 US-08-205-697A-23	Sequence 23, Appl
11	903	52.0	329	3 US-08-702-525-23	Sequence 23, Appl
12	903	52.0	329	3 US-08-403-253A-4	Sequence 4, Appli
13	903	52.0	329	4 US-08-435-816A-4	Sequence 4, Appli
14	903	52.0	329	4 US-09-425-762-2	Sequence 2, Appli
15	903	52.0	329	4 US-09-837-867A-23	Sequence 23, Appl
16	903	52.0	329	4 US-09-206-132-2	Sequence 2, Appli
17	903	52.0	329	4 US-09-441-411-26	Sequence 26, Appl
18	903	52.0	329	4 US-09-425-516-2	Sequence 2, Appli
19	903	52.0	329	5 PCT-US95-02576-23	Sequence 23, Appl
20	900	51.8	329	4 US-09-667-135-32	Sequence 32, Appl
21	898	51.7	323	4 US-09-651-200-21	Sequence 21, Appl
22	898	51.7	323	4 US-09-441-411-22	Sequence 22, Appl
23	898	51.7	323	5 PCT-US94-09642-2	Sequence 2, Appli
24	894.5	51.5	324	4 US-09-910-174B-6	Sequence 6, Appli
25	894.5	51.5	324	4 US-09-620-461-6	Sequence 6, Appli
26	746.5	43.0	351	4 US-09-756-983-18	Sequence 18, Appl
27	682.5	39.3	218	4 US-09-451-291-12	Sequence 12, Appl

28	643.5	37.0	356	4 US-09-441-411-11	Sequence 11, Appl
29	643.5	37.0	356	4 US-09-441-411-12	Sequence 12, Appl
30	643.5	37.0	356	4 US-09-441-411-16	Sequence 16, Appl
31	643.5	37.0	356	4 US-09-441-411-17	Sequence 17, Appl
32	640.5	36.9	309	2 US-08-456-104-4	Sequence 4, Appli
33	640.5	36.9	309	3 US-08-479-744A-23	Sequence 23, Appl
34	640.5	36.9	309	3 US-08-280-757B-23	Sequence 23, Appl
35	640.5	36.9	309	3 US-08-205-697A-21	Sequence 21, Appl
36	640.5	36.9	309	3 US-08-702-525-21	Sequence 21, Appl
37	640.5	36.9	309	4 US-09-651-200-22	Sequence 22, Appl
38	640.5	36.9	309	4 US-09-667-135-33	Sequence 33, Appl
39	640.5	36.9	309	4 US-09-425-762-23	Sequence 23, Appl
40	640.5	36.9	309	4 US-09-837-867A-21	Sequence 21, Appl
41	640.5	36.9	309	4 US-09-206-132-4	Sequence 4, Appli
42	640.5	36.9	309	4 US-09-441-411-13	Sequence 13, Appl
43	640.5	36.9	309	4 US-09-441-411-18	Sequence 18, Appl
44	640.5	36.9	309	4 US-09-441-411-24	Sequence 24, Appl
45	640.5	36.9	309	4 US-09-425-516-23	Sequence 23, Appl

ALIGNMENTS

RESULT 1

US-09-651-200-18
; Sequence 18, Application US/09651200
; Patent No. 6429303
; GENERAL INFORMATION:
; APPLICANT: Green et al
; TITLE OF INVENTION: Polynucleotides Encoding Members of the Human B
; TITLE OF INVENTION: Lymphocyte Activation Antigen B-7 Family and
; TITLE OF INVENTION: Polypeptides Encoded Thereby
; FILE REFERENCE: 15966-562 (CURA-62)
; CURRENT APPLICATION NUMBER: US/09/651,200
; PRIORITY FILING DATE: 2000-08-30
; PRIOR APPLICATION NUMBER: 60/152383
; PRIOR FILING DATE: 1999-09-03
; PRIOR APPLICATION NUMBER: 60/172909
; PRIOR FILING DATE: 1999-12-21
; PRIOR APPLICATION NUMBER: 60/183578
; PRIOR FILING DATE: 2000-02-18
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 18
; LENGTH: 329
; TYPE: PRM
; ORGANISM: Felis catus
US-09-651-200-18

Query Match	100.0%	Score 1737;	DB 4;	Length 329;
Best Local Similarity	100.0%	Pred. No. 2.5e-168;	Mismatches 0;	Indels 0; Gaps 0;
Matches 329;	Conservative 0;			
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Db	1	MGICDSTMGSLTLLVMALLSGVSMKSAQYFNKTGELPCHFTNSQNSLDELVVFWQD	60	
Qy	61	QDKLVLYEIFRGENPQNVHLKYKRTSPDKDNTLRLHNVOIKKGTGTHCIHYKPGK	120	
Db	61	QDKLVLYEIFRGENPQNVHLKYKRTSPDKDNTLRLHNVOIKKGTGTHCIHYKPGK	120	
Qy	121	LVPHQMSDDLVLANFSPQELTVTSNRTENSGIINLTCSIIQGYPEPKEMYFQLTNTENS	180	
Db	121	LVPHQMSDDLVLANFSPQELTVTSNRTENSGIINLTCSIIQGYPEPKEMYFQLTNTENS	180	
Qy	181	TTKYDTVMKKSQNNVTLYNVSISLPFVPEAHNVSVFCAKLETLEMLLSLPFNIDAOP	240	
Db	181	TTKYDTVMKKSQNNVTLYNVSISLPFVPEAHNVSVFCAKLETLEMLLSLPFNIDAOP	240	
Qy	241	KDKDPEQGHFLIAAVALVNVVFCGVKFTLRKRKKQKPGPSHBCETIKRERKESKQTN	300	
Db	241	KDKDPEQGHFLIAAVALVNVVFCGVKFTLRKRKKQKPGPSHBCETIKRERKESKQTN	300	

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QY 301 ERVPYHVPERSDEAQCWNILKTASGDKNQ 329
Db 301 ERVPYHVPERSDEAQCWNILKTASGDKNQ 329

RESULT 2
US-09-303-040-6
; Sequence 6, Application US/09303040
; Patent No. 655671
; GENERAL INFORMATION:
; APPLICANT: Winslow, Barbara J.
; TITLE OF INVENTION: Recombinant Virus Expressing Foreign DNA Encoding
; TITLE OF INVENTION: Feline CD80, Feline CD86, Feline CD28, Feline CTLA-4 or
; TITLE OF INVENTION: Feline Interferon-gamma And Uses Thereof
; FILE REFERENCE: 54957-B
; CURRENT APPLICATION NUMBER: US/09/303,040
; CURRENT FILING DATE: 1999-04-30
; EARLIER APPLICATION NUMBER: 60/083,870
; EARLIER FILING DATE: 1998-05-01
; NUMBER OF SEQ ID NOS: 82
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 6
; LENGTH: 329
; TYPE: PRT
; ORGANISM: feline CD86
US-09-303-040-6

Query Match 100.0%; Score 1737; DB 4; Length 329;
Best Local Similarity 100.0%; Pred. No. 2.5e-168;
Matches 329; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 MGICDSTMGSLTLLVMALLLSGVSSMKSQAYFNKTGELPCHFTNSQNSISLDELVVFWD 60

QY 61 QDKLVLYEIPRGKENPONVHLKYKRTSFDKDNWTLRLHNVOIKDGYTHCFIHYKGP 120
Db 61 QDKLVLYEIPRGKENPONVHLKYKRTSFDKDNWTLRLHNVOIKDGYTHCFIHYKGP 120

QY 121 LVPMHQMSDLSVLNFSQPEITVTSNRTENSGIINLTCSISIQGYPEPKMYFQNTENS 180
Db 121 LVPMHQMSDLSVLNFSQPEITVTSNRTENSGIINLTCSISIQGYPEPKMYFQNTENS 180

QY 181 TTKYDTVMKSSQNNVTLYNVSISLPSFVPEAHNVSVFCAKLETLMLLSLPFNIDAQ 240
Db 181 TTKYDTVMKSSQNNVTLYNVSISLPSFVPEAHNVSVFCAKLETLMLLSLPFNIDAQ 240

QY 241 KDKDPQGHFLMTAAVLVMFVFCGMVSFRTLRRKKKQPGPSHECETIKRERKESKQTN 300
Db 241 KDKDPQGHFLMTAAVLVMFVFCGMVSFRTLRRKKKQPGPSHECETIKRERKESKQTN 300

QY 301 ERVPYHVPERSDEAQCWNILKTASGDKNQ 329
Db 301 ERVPYHVPERSDEAQCWNILKTASGDKNQ 329

RESULT 3
US-09-651-200-19
; Sequence 19, Application US/09651200
; Patent No. 6429303
; GENERAL INFORMATION:
; APPLICANT: Green et al
; TITLE OF INVENTION: Polynucleotides Encoding Members of the Human B
; TITLE OF INVENTION: Lymphocyte Activation Antigen B-7 Family and
; TITLE OF INVENTION: Polypeptides Encoded Thereby
; FILE REFERENCE: 15966-562 (CURA-62)
; CURRENT APPLICATION NUMBER: US/09/651,200
; CURRENT FILING DATE: 2000-08-30
; PRIOR APPLICATION NUMBER: 60/152383
; PRIOR FILING DATE: 1999-09-03
; PRIOR APPLICATION NUMBER: 60/172909
; PRIOR FILING DATE: 1999-12-21
; PRIOR APPLICATION NUMBER: 60/183578
; PRIOR FILING DATE: 2000-02-18
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 20
; LENGTH: 325
; TYPE: PRT
; ORGANISM: sus sp.
US-09-651-200-20

Query Match 66.6%; Score 1157; DB 4; Length 325;
Best Local Similarity 70.1%; Pred. No. 2.9e-109;
Matches 227; Conservative 35; Mismatches 56; Indels 6; Gaps 5;

QY 8 MGLSHTLLVMALLLSGVSSMKSQAYFNKTGELPCHFTNSQNSISLDELVVFWDQDKLVLY 67
Db 1 MGLSHTLLVMALLLSGVSSMKSQAYFNKTGELPCHFTNSQNSISLDELVVFWDQDKLVLY 67
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; PRIOR APPLICATION NUMBER: 60/183578
; PRIOR FILING DATE: 2000-02-18
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 19
; LENGTH: 329
; TYPE: PRT
; ORGANISM: Canis familiaris
US-09-651-200-19

Query Match 79.0%; Score 1372; DB 4; Length 329;
Best Local Similarity 81.7%; Pred. No. 3.7e-131;
Matches 263; Conservative 22; Mismatches 35; Indels 2; Gaps 2;

QY 7 TMGLSHTLLVMALLLSGVSSMKSQAYFNKTGELPCHFTNSQNSISLDELVVFWDQDKLVLY 66
Db 6 TMELNNILFVMTLLLYGAASMKSQAYFNKTGELPCHFTNSQNSISLDELVVFWDQDKLVLY 65

QY 67 YEIPRGKENPONVHLKYKRTSFDKDNWTLRLHNVOIKDGYTHCFIHYKGPGLVPMHQ 126
Db 66 YELYRGKENPONVHRKYKRTSFDKDNWTLRLHNIQIKDGLYQCFFVHHKGPGLVPMHQ 125

QY 127 MSSDLSVLNFSQPEITVTSNRTENSGIINLTCSISIQGYPEPKMYFQNTENSTTKYDT 186
Db 126 MNSDLSVLNFSQPEIMVTNSNRTENSGIINLTCSISIQGYPEPKMYFVKTENSTTKYDT 185

QY 187 VMKSSQNNVTLYNVSISLPSFVPEAHNVSVFCAKLETLMLLSLPFNIDAQPKDPE 246
Db 186 VMKSSQNNVTLYNVSISLPSFVPEASNVSVFVQLQESMK-LPSLPYNIDAHTK-PTPD 243

QY 247 QGHFLMTAAVLVMFVFCGMVSFRTLRRKKKQPGPSHECETIKRERKESKOTNERVPYH 306
Db 244 GDHLWIAALLVMVLVILGMVFFTLRLRRKKKQPGPSHECETIKRERKESQTKERVYH 303

QY 307 VPERSDEAQCWNILKTASGDKN 328
Db 304 ETERSDEAQCWNISKTAGDNS 325
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RESULT 4

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US-09-651-200-20
; Sequence 20, Application US/09651200
; Patent No. 6429303
; GENERAL INFORMATION:
; APPLICANT: Green et al
; TITLE OF INVENTION: Polynucleotides Encoding Members of the Human B
; TITLE OF INVENTION: Lymphocyte Activation Antigen B-7 Family and
; TITLE OF INVENTION: Polypeptides Encoded Thereby
; FILE REFERENCE: 15966-562 (CURA-62)
; CURRENT APPLICATION NUMBER: US/09/651,200
; CURRENT FILING DATE: 2000-08-30
; PRIOR APPLICATION NUMBER: 60/152383
; PRIOR FILING DATE: 1999-09-03
; PRIOR APPLICATION NUMBER: 60/172909
; PRIOR FILING DATE: 1999-12-21
; PRIOR APPLICATION NUMBER: 60/183578
; PRIOR FILING DATE: 2000-02-18
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 20
; LENGTH: 325
; TYPE: PRT
; ORGANISM: sus sp.
US-09-651-200-20

Query Match 66.6%; Score 1157; DB 4; Length 325;
Best Local Similarity 70.1%; Pred. No. 2.9e-109;
Matches 227; Conservative 35; Mismatches 56; Indels 6; Gaps 5;

QY 8 MGLSHTLLVMALLLSGVSSMKSQAYFNKTGELPCHFTNSQNSISLDELVVFWDQDKLVLY 67
Db 1 MGLSHTLLVMALLLSGVSSMKSQAYFNKTGELPCHFTNSQNSISLDELVVFWDQDKLVLY 67
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QY 68 EIPRGKENPONVHLKYKGRTSFKDKNWTLLRLHNVOIKDGYHCFHYHKGPKGLVPMHQ 127
Db 61 ELYRGOEKPHNVNKGRTSFDQATWTLRLHNVOIKDGYHCFHYHKGPKGLVPMHQ 120
QY 128 SSDLSVLNFSQPEITVTSNRNTEGIIINLTCSIOGYPEPKMYFQNTENSTTKYDITV 187
Db 121 SSDLSVLNFSQPEITVTSNRNTEGIIINLTCSIOGYPEPKMYFQNTENSTTKYDITV 179
QY 188 MKSQNNVTLYNVSISLPSFVPEAHNVSVFCALKLETLEMLL-SLPFNIDAQPKDQPE 246
Db 180 MKSQNNVTLYNVSISLPSFVPEAHNVSVFCALKLETLEMLL-SLPFNIDAQPKDQPE 239
QY 247 QGHFLMIAAVLMVFCGMSFKTLRKKKQKQPSHEC-ETIKERKESKOTNERVPY 305
Db 240 PDHILMIAALLVTWVVCVMSFVTLRKKKQKQPSHEC-ETIKERKESKOTNERVPY 299
QY 306 HYPERSDEAQC-VNIIKTASGDKN 328
Db 300 H-ERSDDAQCDVNIILKTASDDNS 321

RESULT 5
US-09-949-016-11132
; Sequence 11132, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CLO01307
; CURRENT APPLICATION NUMBER: US/09/949, 016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241, 755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237, 768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231, 498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11132
; LENGTH: 372
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-11132

Query Match 53.7%; Score 932; DB 4; Length 372;
Best Local Similarity 59.1%; Pred. No. 2.9e-86;
Matches 195; Conservative 44; Mismatches 83; Indels 8; Gaps 7;

QY 2 GICDSTWGLSHTLLVMAILLSGVSSMKSQAYFNKTGELPCHFTNSQNSISLDELVVFWDQ 61
Db 44 GICDSTWGLSHTLLVMAILLSGVSSMKSQAYFNKTGELPCHFTNSQNSISLDELVVFWDQ 103
QY 62 DKIVLYEIRFGKENPONVHLKYKGRTSFKDKNWTLLRLHNVOIKDGYHCFHYHKGPKGL 121
Db 104 ENLVNEVLGKEKFDPSVHSGYMGRTSFDSDSWTLRLHNVOIKDGYHCFHYHKGPKGL 163
QY 122 VPMQSSDLSVLNFSQPEITVTSNRNTEGIIINLTCSIOGYPEPKMYFQNTENST 181
Db 164 IRIHQNSLSVLNFSQPEITVTSNRNTEGIIINLTCSIOGYPEPKMYFQNTENST 222
QY 182 TKYDVTMKSQNNVTLYNVSISLPSFVPEAHNVSVFCALKLETLEMLL-SLPFNIDAQ 240
Db 223 IEYDGMQSQNNVTLYNVSISLPSFVPEAHNVSVFCALKLETLEMLL-SLPFNIDAQ 280
QY 241 KDKDPEQGHFLMIAAVLMVFCGMSFKTLRKKKQKQPSHEC-ETIKERKESKOTNERVP 299
Db 281 -DQPPDPHPIWITAVLPT-VIICVMVFCILMKKKKPRNSYKCGTNTMERESQ 338
QY 300 NERVYPHYPERSDEAQC-VNIIKTASGDKN 328
Db 339 KKEKTHIPERSDEAQC-VNIIKTASGDKN 328

RESULT 6

US-08-456-104-2
; Sequence 2, Application US/08456104
; Patent No. 5861310
; GENERAL INFORMATION:
; APPLICANT: Freeman, Gordon J.
; APPLICANT: Nadler, Lee M.
; APPLICANT: Gray, Gary S.
; TITLE OF INVENTION: TUMOR CELLS MODIFIED TO EXPRESS B7-2 AND B7-3 WITH INCREASED
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 State Street, Suite 510
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/456,104
; FILING DATE:
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/101,624;
; FILING DATE: 26-JUL-1993;
; APPLICATION NUMBER: 08/109,393;
; APPLICATION NUMBER: 19-AUG-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Mandragouras, Amy E.
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: RPI-008
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 329 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-456-104-2

Query Match 52.0%; Score 903; DB 2; Length 329;
Best Local Similarity 58.5%; Pred. No. 2.1e-83;
Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;

QY 7 TWGLSHTLLVMAILLSGVSSMKSQAYFNKTGELPCHFTNSQNSISLDELVVFWDQDKLV 66
Db 6 TWGLSHTLLVMAILLSGVSSMKSQAYFNKTGELPCHFTNSQNSISLDELVVFWDQDKLV 65
QY 67 YIIFRGKENPONVHLKYKGRTSFKDKNWTLLRLHNVOIKDGYHCFHYHKGPKGLVPMHQ 126
Db 66 NEVILGKEKFDPSVHSGYMGRTSFDSDSWTLRLHNVOIKDGYHCFHYHKGPKGLVPMHQ 125
QY 127 MSQSSDLSVLNFSQPEITVTSNRNTEGIIINLTCSIOGYPEPKMYFQNTENSTTKYD 186
Db 126 MSQSSDLSVLNFSQPEITVTSNRNTEGIIINLTCSIOGYPEPKMYFQNTENSTTKYD 184
QY 187 VMKQSSDLSVLNFSQPEITVTSNRNTEGIIINLTCSIOGYPEPKMYFQNTENSTTKYD 245
Db 185 IMQSQNNVTLYNVSISLPSFVPEAHNVSVFCALKLETLEMLL-SLPFNIDAQPKDQ 241
QY 246 EQGHFLMIAAVLMVFCGMSFKTLRKKKQKQPSHEC-ETIKERKESKOTNERVP 304
Db 242 PPDHPIWITAVLPT-VIICVMVFCILMKKKKPRNSYKCGTNTMERESQTKKREK 300
QY 305 YHYPERSDEAQC-VNIIKTASGDKN 328

Db 301 IHIPERSDEAQRVFKSSKTSSCDKS 325

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RESULT 7
US-08-101-624-2
; Sequence 2, Application US/08101624
; Patent No. 5942607
; GENERAL INFORMATION:
; APPLICANT: Freeman, Gordon J.
; APPLICANT: Nadler, Lee M.
; APPLICANT: Gray, Gary S.
; TITLE OF INVENTION: No. 5942607el CTLLA4/CD28 Ligands and
; TITLE OF INVENTION: Uses Therefor
; NUMBER OF SEQUENCES: 25
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 State Street, Suite 510
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/101,624
; FILING DATE: 26-JUL-1993
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Mandragouras, Amy E.
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: RPI-004
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 329 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-101-624-2

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Query Match	52.0%;	Score 903;	DB 2;	Length 329;
Best Local Similarity	58.5%;	Pred. No. 2.1e-83;		
Matches 190;	Conservative 44;	Mismatches 83;	Indels 8;	Gaps 7
Qy	7	TMGLSHITLLVMAILLSGVSSMKSQAYFNKTCBGPCHFTNSQNISLDELWVFQDQDKLVL	66	
Db	6	TMGLSNILFYMAFLLSGAAPLKIQAYFNETADLPCQFANSQNQSLSLVVFQDQENLVL	65	
Qy	67	YEIFRGKFNPNVHLKYGRTSFQKDNWTLRLHNVOIKDGTYHCYFIHYKPGKGLVPMHQ	126	
Db	66	NEVYLGEKFDQSVHSKYMGRTSFQSDSWTLRLHNIQIKDGLGYCQIIHHKPTGMIRIHQ	125	
Qy	127	MSSDLSVLANSQPEITVTSNRTNSGIIINLTCSIOGYPPPKEMYFOINTENSTTKYDT	186	
Db	126	MNSELSVLANFSQPEIVPISNITENV-YINLTCSIIHGYPPEPKMSVLLRRTKNSITIEDG	184	
Qy	187	VMKSONNVTELYNVVISLSPESVPE-AHNVSVEFCALKETLEMLISLSPFNIDAQPKDKDP	245	
Db	185	IMQKSDQNVTELYDVVISLSLVSFPDVTNSMTIFCILETDKTR-LUSSFPSFELE--DRQP	241	
Qy	246	EQGHFLMAAIVLMVFVFCGMVSPFKLRK-RKKQPGPSEHCETIKRKRKESKOTNERVP	304	
Db	242	PPDHIPMITAVLPY-VIICVMVFCLIIWKWKKKRPNSKYCGITWMRESEQTKKREK	300	

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Qy 305 YHVPERSDEAQC-V-NILKTASGDKN 328
   1:|||||
Db 301 IHIPERSDEAQRVFKSKTSSCDKS 325
   1:|||||

RESULT 8
US-08-479-744A-2
; Sequence 2, Application US/08479744A
; Patent No. 6084067
; GENERAL INFORMATION:
; APPLICANT: Freeman, Gordon J.
; APPLICANT: Nadler, Lee M.
; APPLICANT: Gray, Gary S.
; TITLE OF INVENTION: Nos. 6084067el CTIA4/CD28 Ligands and
; TITLE OF INVENTION: Uses Therefor
; NUMBER OF SEQUENCES: 55
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD, LLP
; STREET: 60 State Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/479,744A
; FILING DATE: June 7, 1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/280,757
; FILING DATE: 26-JUL-1994
; APPLICATION NUMBER: 08/109,393
; FILING DATE: 28-AUG-1993
; APPLICATION NUMBER: 08/101,624
; FILING DATE: 26-JULY-1993
; APPLICATION NUMBER: 08/147,773
; FILING DATE: 3-NOV-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Mandragouras, Amy E.
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: RPI-004CP3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 329 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-479-744A-2

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	Query Match	52.0%;	Score 903;	DB 3;	Length 329;	
	Best Local Similarity	58.5%;	Pred. No. 2.1e-83;			
	Matches 190;	Conservative 44;	Mismatches 83;	Indels 8;	Gaps 7	
Qy	7	TMGLSHLTLLVMALLSSGVSSMKSQAYFNKGTGELPCHEFTNSQNISGLDELVFWQDQDKLVL	66			
Db	6	TMGLSNTLFWAFLLSGAAPLKIQAYFNETADLPCQFANSQNQSLSLVFWQDQDENLVL	65			
Qy	67	YEIFRGKENPQNVLKYGKRTSPDKNWTLLRLHNQIKDKGYHCFTHYKGPGLVPMHQ	126			
Db	66	NEVYLGREKTFDSVHSKYMGRTSFDSWTLRLHLNLIQDKGLYQCIIHHKKPTGMIRHQ	125			
Qy	127	MSPDLVLANFSPQPEITVTNRRNTENSGIINLTCCSIOGYPEPKMYFOLNTENSTTKYDT	186			
Db	126	MNSESLVLANFSPQPEIVPISNITENV-YINLTCSISIHGYPEPKMSVLTRKNSTIEXDG	184			
Qy	187	VMKSQNNVTLYNVISLSPFSVEP-AHNVSVFCAKLETLLEMLLSPFNIDAOQKQDP	245			

Db 185 IMKSDNVTELYDVSISLSPDPVTSNNITFCILETDKTR--LLSSPFSIELE--DPQP 241
QY 246 EOGHFLWIAAVLVMFVFCGMVGFKTLRK--KKKQPGPSHECETIKRKESKOTNERVP 304
Db 242 PPHIPWITAVLPT-VIICVMVFCILWKKKRPNSYKCGTNTWREESQTKKREK 300
QY 305 YHVPERSDEAQC-V-NILKTASGDKN 328
Db 301 IHPERSDEAQRVFKSKTSKSSCDKS 325

RESULT 9

US-08-280-757B-2
; Sequence 2, Application US/08280757B
; Patent No. 6130316
; GENERAL INFORMATION:
; APPLICANT: Freeman, Gordon J.
; APPLICANT: Nadler, Lee M.
; APPLICANT: Gray, Gary S.
; APPLICANT: Greenfield, Edward
; TITLE OF INVENTION: No. 6130316el CTLLA4/CD28 Ligands and
; TITLE OF INVENTION: Uses Therefor
; NUMBER OF SEQUENCES: 53
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 State Street, Suite 510
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/280,757B
; FILING DATE: 26-JUL-1994
; CLASSIFICATION: 435
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: 08/101,624
; FILING DATE: 26-JULY-1993
; APPLICATION NUMBER: 08/109,393
; FILING DATE: 19-AUG-1993
; APPLICATION NUMBER: 08/147,773
; FILING DATE: 3-NOV-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Mandragouras, Amy E.
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: RPI-004CP2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 329 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-280-757B-2

Query Match 52.0%; Score 903; DB 3; Length 329;
Best Local Similarity 58.5%; Pred. No. 2.1e-83;
Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;
QY 7 TMDLSHTLLVMAALLSGVSSMKSQAYFNKTGBLPCHFTNSQNTSLDELVVFVWQDQKLV 66
Db 6 TMGLSNILFWAFLLSGAAPLKIQAYFNETADLPQCFANSQNSLSLSELVVFVWQDQENLV 65
QY 67 YEIFRGKENPQNVHLKYKGTSTFDKDNWTLRLHNVOIKDKGYHCFHYKGPGLVPMHQ 126
Db 66 NEVYLKKEKFDSDVHSKYMGRSTFSDSWTLRLHNLQIKDKGLYQCIHHKKPTGMIRIHQ 125

QY 127 MSSDLSVLANFQPEITVTSNRTENSIGIINLTCSISIQGYPEPKEMYFQLTNTENSTTKYDT 186
Db 126 MNSELVLANFQSPRIPIPSINITENV-YINLTCSISIHGYPEPKOMSVLLRTRKNSTIYDQ 184
QY 187 VMKSGNNVTLYNVSISLSPFSVPE-AHNVSVFCALKLETLEMLLSLPNIDAOQPKDQ 245
Db 185 IMKSDNVTELYDVSISLSPDPVTSNNITFCILETDKTR--LLSSPFSIELE--DPQP 241
QY 246 EOGHFLWIAAVLVMFVFCGMVGFKTLRK--KKKQPGPSHECETIKRKESKOTNERVP 304
Db 242 PPHIPWITAVLPT-VIICVMVFCILWKKKRPNSYKCGTNTWREESQTKKREK 300
QY 305 YHVPERSDEAQC-V-NILKTASGDKN 328
Db 301 IHPERSDEAQRVFKSKTSKSSCDKS 325

RESULT 10

US-08-205-697A-23
; Sequence 23, Application US/08205697A
; Patent No. 6218510
; GENERAL INFORMATION:
; APPLICANT: Sharpe, Arlene H.
; APPLICANT: Borriello, Francescopaulo
; APPLICANT: Freeman, Gordon J.
; APPLICANT: Nadler, Lee M.
; TITLE OF INVENTION: No. 6218510el Forms of T Cell Costimulatory Molecules
; TITLE OF INVENTION: and Uses Therefor
; NUMBER OF SEQUENCES: 61
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 State Street, suite 510
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/205,697A
; FILING DATE: 02-Mar-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Mandragouras, Amy E.
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: BWI-120
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 23:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 329 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-205-697A-23

Query Match 52.0%; Score 903; DB 3; Length 329;
Best Local Similarity 58.5%; Pred. No. 2.1e-83;
Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;
QY 7 TMDLSHTLLVMAALLSGVSSMKSQAYFNKTGBLPCHFTNSQNTSLDELVVFVWQDQKLV 66
Db 6 TMGLSNILFWAFLLSGAAPLKIQAYFNETADLPQCFANSQNSLSLSELVVFVWQDQENLV 65
QY 67 YEIFRGKENPQNVHLKYKGTSTFDKDNWTLRLHNVOIKDKGYHCFHYKGPGLVPMHQ 126
Db 66 NEVYLKKEKFDSDVHSKYMGRSTFSDSWTLRLHNLQIKDKGLYQCIHHKKPTGMIRIHQ 125
QY 127 MSSDLSVLANFQPEITVTSNRTENSIGIINLTCSISIQGYPEPKEMYFQLTNTENSTTKYDT 186

Db 126 MNSLSVLANSFQPEIVPISNITENV-YINLTCSIHGYPEPKKMSVLLRTKNSTIEYDG 184
QY 187 VMKKSQNNVTLYNYSISLPFSVPE-AHNVSVFCALKLETLEMLSLPFDNDAQPKDKDP 245
Db 185 IMQSQDNVTLYDVSISLSVSPDVTNSMTIFCILETDKTR-LLSSPFSIELE--DPQP 241
QY 246 EOGHFLWIAAVLVMFVFCGWSFKTLRK-RKKQPGPSHECETIKRERKESQTNERPVP 304
Db 242 PPDHPIWITAVLPT-VIIICVMVFCILMLWKWKKKRPRNSYKCGTNTMEREESEQTKKREK 300
QY 305 YHVPERSDEAOCV-NILKTASGDKN 328
Db 301 IHIPERSDEAQRVFKSKTSKCDKS 325

RESULT 11

US-08-702-525-23
; Sequence 23, Application US/08702525
; Patent No. 6294660
; GENERAL INFORMATION:
; APPLICANT: Sharpe, Sharpe
; APPLICANT: Borriello, Francescopaolo
; APPLICANT: Freeman, Gordon
; APPLICANT: Nadler, Lee
; TITLE OF INVENTION: No. 6294660el Forms of T Cell Costimulatory
; TITLE OF INVENTION: Molecules and Uses Therefor
; NUMBER OF SEQUENCES: 65
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 28 State Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109-1875
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/702,525
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/205,697
; FILING DATE: 02-Mar-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Mandragouras, Amy E.
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: BWI-120CPUS
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 23:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 329 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-702-525-23

Query Match 52.0%; Score 903; DB 3; Length 329;
Best Local Similarity 58.5%; Pred. No. 2.1e-83;
Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;
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Db 6 TWGLSNILFWALLSGAAPLKIQAIFYNETADLPCCQFANSQSLSELVVFVWQDQENLVL 65
QY 67 YEIFRGENPQNVHLKYKRTSPDKDNTWTLRLHNVQIKDGTVCPIHYKPGKLVPMHQ 126
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Db 185 IMQSQDNVTLYDVSISLSVSPDVTNSMTIFCILETDKTR-LLSSPFSIELE--DPQP 241
QY 246 EOGHFLWIAAVLVMFVFCGWSFKTLRK-RKKQPGPSHECETIKRERKESQTNERPVP 304
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Db 301 IHIPERSDEAQRVFKSKTSKCDKS 325

RESULT 12

US-08-403-253A-4
; Sequence 4, Application US/08403253A
; Patent No. 6352694
; GENERAL INFORMATION:
; APPLICANT: June, Carl H., Thompson, Craig B., Nabel, Gary J.
; APPLICANT: Gray, Gary S., Rennert, Paul D.
; TITLE OF INVENTION: Methods For Selectively Stimulating Proliferation Of T-Cells
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 28 State Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/403,253A
; FILING DATE: March 10, 1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/253,964
; FILING DATE: 3 JUNE 1994
; APPLICATION NUMBER: US 08/073,223
; FILING DATE: 4 JUNE 1993
; APPLICATION NUMBER: US 08/200,947
; FILING DATE: 23 FEB 1994
; APPLICATION NUMBER: US 07/864,805
; FILING DATE: 7 APR 1992
; APPLICATION NUMBER: US 08/247,505
; FILING DATE: 23 MAY 1994
; APPLICATION NUMBER: US 07/864,866
; FILING DATE: 7 APR 1992
; APPLICATION NUMBER: US 08/218,155
; FILING DATE: 25 MAR 1994
; APPLICATION NUMBER: US 07/864,807
; FILING DATE: 7 APR 1992
; APPLICATION NUMBER: US 07/902,467
; FILING DATE: 16 JUNE 1992
; APPLICATION NUMBER: US 07/275,433
; FILING DATE: 23 NOV 1988
; ATTORNEY/AGENT INFORMATION:
; NAME: Mandragouras, Amy E.
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: RPI-002CP2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 329 amino acids

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; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-403-253A-4

Query Match      52.0%; Score 903; DB 3; Length 329;
Best Local Similarity 58.5%; Pred. No. 2.1e-83;
Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;

QY 7 TMGLSHTLLVMALLSGVSMKSOAYFNKGTSGDKDNWTLRLHNQIKDKGYHCFHYHKGPKGLVPMHQ 126
Db 6 TMGLSNILFWAPLLSGAAPLKIQAYFNETADLPQCFANSQNSQSELVVFWDQDQNLVL 65
QY 67 YEIFRGKENPQNVHLKYKRTSFDKDNWTLRLHNQIKDKGYHCFHYHKGPKGLVPMHQ 126
Db 66 NEVYLKGEKFDVSHSKYMGRTSFDSDSWTLRLHNQIKDKGLYQCIHHKPKTGMIRIHQ 125
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; Sequence 4, Application US/08435816A
; Patent No. 6534055
; GENERAL INFORMATION:
; APPLICANT: June, Carl H.
; APPLICANT: Thompson, Craig B.
; APPLICANT: Nabel, Gary J.
; APPLICANT: Gray, Gary S.
; APPLICANT: Rennett, Paul D.
; TITLE OF INVENTION: Methods For Selectively Stimulating Proliferation Of T-Cells
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 State Street, Suite 510
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/435,816A
; FILING DATE: May 4, 1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/403,253
; FILING DATE: 10 MARCH 1995
; APPLICATION NUMBER: US 08/253,964
; FILING DATE: 3 JUNE 1994
; APPLICATION NUMBER: US 08/073,223
; FILING DATE: 4 JUNE 1993
; APPLICATION NUMBER: US 08/200,947
; FILING DATE: 23 FEB 1994
; APPLICATION NUMBER: US 07/864,805
; FILING DATE: 7 APR 1992
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; APPLICATION NUMBER: US 08/247,505
; FILING DATE: 23 MAY 1994
; APPLICATION NUMBER: US 07/864,866
; FILING DATE: 7 APR 1992
; APPLICATION NUMBER: US 08/218,155
; FILING DATE: 25 MAR 1994
; APPLICATION NUMBER: US 07/864,807
; FILING DATE: 7 APR 1992
; APPLICATION NUMBER: US 07/902,467
; FILING DATE: 16 JUNE 1992
; APPLICATION NUMBER: US 07/275,433
; FILING DATE: 23 NOV 1988
; ATTORNEY/AGENT INFORMATION:
; NAME: Mandragouras, Amy E.
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: RPT-002CP3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 329 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-435-816A-4

Query Match      52.0%; Score 903; DB 4; Length 329;
Best Local Similarity 58.5%; Pred. No. 2.1e-83;
Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;

QY 7 TMGLSHTLLVMALLSGVSMKSOAYFNKGTSGDKDNWTLRLHNQIKDKGYHCFHYHKGPKGLVPMHQ 126
Db 6 TMGLSNILFWAPLLSGAAPLKIQAYFNETADLPQCFANSQNSQSELVVFWDQDQNLVL 65
QY 67 YEIFRGKENPQNVHLKYKRTSFDKDNWTLRLHNQIKDKGYHCFHYHKGPKGLVPMHQ 126
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; Sequence 2, Application US/09425762
; Patent No. 6605279
; GENERAL INFORMATION:
; APPLICANT: Freeman, Gordon J.
; APPLICANT: Nadler, Lee M.
; APPLICANT: Gray, Gary S.
; TITLE OF INVENTION: No. 6605279el CTLA4/CD28 Ligands and
; TITLE OF INVENTION: Uses Therefor
; NUMBER OF SEQUENCES: 55
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD, LLP
; STREET: 60 State Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
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; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/425,762
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/479,744
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Mandragouras, Amy B.
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: RPI-004CP3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 329 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-425-762-2
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Best Local Similarity 58.5%; Pred. No. 2.1e-83;
Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;

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DB 6 TWGLSNILFVMAFLLSGAAPLKIQAYFNETADLPCQFANSQNSLSLVVFWQDQENLVL 65
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DB 66 NEVYLGEKFDSDVHSGYMGRTSFDSDSWTLRLHNLQIKDGLYQCIHHKKPTGMIRIHQ 125
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; Sequence 23, Application US/09837867A
; Patent No. 6608180
; GENERAL INFORMATION:
; APPLICANT: Sharpe, Arlene H.
; APPLICANT: Borriello, Francescopaulo
; APPLICANT: Freeman, Gordon J.
; APPLICANT: Nadler, Lee M.
; TITLE OF INVENTION: No. 6608180el Forms of T Cell Costimulatory
; FILE OF INVENTION: Molecules and Uses Thereof
; FILE REFERENCE: BWI-120CPADV
; CURRENT APPLICATION NUMBER: US/09/837,867A
; CURRENT FILING DATE: 2001-04-17
; PRIOR APPLICATION NUMBER: 08/205,697
; PRIOR FILING DATE: 1994-03-02
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; US-09-837-867A-23

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Best Local Similarity 58.5%; Pred. No. 2.1e-83;
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QY 7 TWGLSHTLLVMALLSGVSSMKSOAYFNKTGBLPCHTNSQNISLDELVFWQDQDKLVL 66
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Job time : 25 secs
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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: August 17, 2005, 18:58:34 ; Search time 158 Seconds
(without alignments)
815.391 Million cell updates/sec

Title: US-09-303-510-6

Perfect score: 1737

Sequence: 1 MGICDSTWGLSHTLLVMALL.....RSDEAQCVMILKTASGDKNQ 329

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1759131 seqs, 391586102 residues

Total number of hits satisfying chosen parameters: 1759131

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications, AA.*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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4	1372	79.0	329	16	US-10-790-396-7
5	1157.5	66.6	280	16	US-10-790-396-17
6	903	52.0	329	8	US-08-592-711-4
7	903	52.0	329	9	US-09-183-055-4
8	903	52.0	329	9	US-09-425-762-2
9	903	52.0	329	9	US-09-837-867A-23
10	903	52.0	329	10	US-09-441-411-26
11	903	52.0	329	10	US-09-962-969-23

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13	903	52.0	329	14	US-10-041-319-8	Sequence 8, Appli
14	903	52.0	329	15	US-10-390-330-4	Sequence 4, Appli
15	903	52.0	329	16	US-10-643-768-23	Sequence 23, Appli
16	903	52.0	329	16	US-10-756-783-6	Sequence 6, Appli
17	903	52.0	329	16	US-10-762-128-26	Sequence 26, Appli
18	903	52.0	329	16	US-10-429-079B-2	Sequence 2, Appli
19	903	52.0	329	18	US-10-767-561-2	Sequence 2, Appli
20	900	51.8	329	15	US-10-318-855-32	Sequence 32, Appli
21	898	51.7	323	9	US-09-955-866-5	Sequence 5, Appli
22	898	51.7	323	9	US-09-896-738-11	Sequence 11, Appli
23	898	51.7	323	9	US-09-915-789A-16	Sequence 16, Appli
24	898	51.7	323	10	US-09-441-411-22	Sequence 22, Appli
25	898	51.7	323	13	US-10-087-192-1080	Sequence 1080, Ap
26	898	51.7	323	14	US-10-207-655-121	Sequence 121, App
27	898	51.7	323	16	US-10-762-128-22	Sequence 22, Appli
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39	746.5	43.0	351	17	US-10-614-414A-18	Sequence 18, Appli
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ALIGNMENTS

RESULT 1

US-09-303-510-6
; Sequence 6, Application US/09303510A
; Patent No. US20020028208A1
; GENERAL INFORMATION:
; APPLICANT: Collis, Ellen W.
; APPLICANT: Hash, Stephen M.
; APPLICANT: Choi, InSoo
; TITLE OF INVENTION: Feline CD80, Feline CD86, Feline CD28, and Feline
; TITLE OF INVENTION: CTLA-4 Nucleic Acid and Polypeptides
; FILE REFERENCE: 54954
; CURRENT APPLICATION NUMBER: US/09/303,510A
; CURRENT FILING DATE: 1999-04-30
; EARLIER APPLICATION NUMBER: 60/083,869
; EARLIER FILING DATE: 1998-05-01
; NUMBER OF SEQ ID NOS: 83
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 329
; TYPE: PRT
; ORGANISM: Feline
US-09-303-510-6

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QY 121 LVPVHMQSSDLSVLNFSQPEITVTSNRTENSIGIINLTCSIIQGYPEPKEMYFQNLNTENS 180
DB 121 LVPVHMQSSDLSVLNFSQPEITVTSNRTENSIGIINLTCSIIQGYPEPKEMYFQNLNTENS 180
QY 181 TTKYDVTMVKSSQNNVTLYNVSISLPFSVPEAHNVSVFCAKLETLEMLLSLPFNIDAQP 240
DB 181 TTKYDVTMVKSSQNNVTLYNVSISLPFSVPEAHNVSVFCAKLETLEMLLSLPFNIDAQP 240
QY 241 KKDPEQGHFLTAIAVLNMFVFCGMVSFKTLRKRKKKQPGPSHCETIKRERKESKQTN 300
DB 241 KKDPEQGHFLTAIAVLNMFVFCGMVSFKTLRKRKKKQPGPSHCETIKRERKESKQTN 300
QY 301 ERVPYHVPERSDEAQCWNILKTASGDKNQ 329
DB 301 ERVPYHVPERSDEAQCWNILKTASGDKNQ 329

RESULT 2

US-09-303-040-6
; Sequence 6, Application US/09303040
; Patent No. US20020051792A1
; GENERAL INFORMATION:
; APPLICANT: Winslow, Barbara J.
; APPLICANT: Cochran, Mark D.
; TITLE OF INVENTION: Recombinant Virus Expressing Foreign DNA Encoding
; TITLE OF INVENTION: Feline CD80, Feline CD86, Feline CD28, Feline CTLA-4 or
; TITLE OF INVENTION: Feline Interferon-gamma And Uses Thereof
; FILE REFERENCE: 54957-B
; CURRENT APPLICATION NUMBER: US/09/303,040
; CURRENT FILING DATE: 1999-04-30
; EARLIER APPLICATION NUMBER: 60/083,870
; EARLIER FILING DATE: 1998-05-01
; NUMBER OF SEQ ID NOS: 82
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 6
; LENGTH: 329
; TYPE: PRT
; ORGANISM: feline CD86
US-09-303-040-6

Query Match 100.0%; Score 1737; DB 9; Length 329;
Best Local Similarity 100.0%; Pred. No. 1.2e-134;
Matches 329; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MGICDSTWGLSHTLLVMALLLSGVSSMKSOAYFNKTGELPCHFTNSQNLSDLVVFWOD 60
DB 1 MGICDSTWGLSHTLLVMALLLSGVSSMKSOAYFNKTGELPCHFTNSQNLSDLVVFWOD 60
QY 61 QDKLVLYEYFRGKENPONVHLKYKRTSFDKDNWTLRLHNVOIKDGTGHCPIHYKGPKG 120
DB 61 QDKLVLYEYFRGKENPONVHLKYKRTSFDKDNWTLRLHNVOIKDGTGHCPIHYKGPKG 120

QY 121 LVPVHMQSSDLSVLNFSQPEITVTSNRTENSIGIINLTCSIIQGYPEPKEMYFQNLNTENS 180
DB 121 LVPVHMQSSDLSVLNFSQPEITVTSNRTENSIGIINLTCSIIQGYPEPKEMYFQNLNTENS 180
QY 181 TTKYDVTMVKSSQNNVTLYNVSISLPFSVPEAHNVSVFCAKLETLEMLLSLPFNIDAQP 240
DB 181 TTKYDVTMVKSSQNNVTLYNVSISLPFSVPEAHNVSVFCAKLETLEMLLSLPFNIDAQP 240
QY 241 KKDPEQGHFLTAIAVLNMFVFCGMVSFKTLRKRKKKQPGPSHCETIKRERKESKQTN 300
DB 241 KKDPEQGHFLTAIAVLNMFVFCGMVSFKTLRKRKKKQPGPSHCETIKRERKESKQTN 300
QY 301 ERVPYHVPERSDEAQCWNILKTASGDKNQ 329
DB 301 ERVPYHVPERSDEAQCWNILKTASGDKNQ 329

RESULT 3

US-10-790-396-26
; Sequence 26, Application US/10790396

; Publication No. US20040157296A1
; GENERAL INFORMATION:
; APPLICANT: Sim, Gek-Kee
; APPLICANT: Yang, Shumin
; APPLICANT: Sellins, Karen S.
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES, AND USES THEREOF
; FILE REFERENCE: IM-1-CI-PCT
; CURRENT APPLICATION NUMBER: US/10/790,396
; CURRENT FILING DATE: 2004-03-01
; PRIOR APPLICATION NUMBER: US/09/646,561
; PRIOR FILING DATE: 2000-09-19
; PRIOR APPLICATION NUMBER: 60/078,765
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 09/062,597
; PRIOR FILING DATE: 1998-04-17
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 26
; LENGTH: 332
; TYPE: PRT
; ORGANISM: Felis catus
US-10-790-396-26

Query Match 99.4%; Score 1726; DB 16; Length 332;
Best Local Similarity 99.4%; Pred. No. 9.8e-134;
Matches 326; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
QY 1 MGICDSTWGLSHTLLVMALLLSGVSSMKSOAYFNKTGELPCHFTNSQNLSDLVVFWOD 60
DB 1 MGICDSTWGLSHTLLVMALLLSGVSSMKSOAYFNKTGELPCHFTNSQNLSDLVVFWOD 60
QY 61 QDKLVLYEYFRGKENPONVHLKYKRTSFDKDNWTLRLHNVOIKDGTGHCPIHYKGPKG 120
DB 61 QDKLVLYEYFRGKENPONVHLKYKRTSFDKDNWTLRLHNVOIKDGTGHCPIHYKGPKG 120
QY 121 LVPVHMQSSDLSVLNFSQPEITVTSNRTENSIGIINLTCSIIQGYPEPKEMYFQNLNTENS 180
DB 121 LVPVHMQSSDLSVLNFSQPEITVTSNRTENSIGIINLTCSIIQGYPEPKEMYFQNLNTENS 180
QY 181 TTKYDVTMVKSSQNNVTLYNVSISLPFSVPEAHNVSVFCAKLETLEMLLSLPFNIDAQP 240
DB 181 TTKYDVTMVKSSQNNVTLYNVSISLPFSVPEAHNVSVFCAKLETLEMLLSLPFNIDAQP 240
QY 241 KKDPEQGHFLTAIAVLNMFVFCGMVSFKTLRKRKKKQPGPSHCETIKRERKESKQTN 300
DB 241 KKDPEQGHFLTAIAVLNMFVFCGMVSFKTLRKRKKKQPGPSHCETIKRERKESKQTN 300
QY 301 ERVPYHVPERSDEAQCWNILKTASGDKN 328
DB 301 ERVPYHVPERSDEAQCWNILKTASGDKS 328

RESULT 4

US-10-790-396-7
; Sequence 7, Application US/10790396
; Publication No. US20040157296A1
; GENERAL INFORMATION:
; APPLICANT: Sim, Gek-Kee
; APPLICANT: Yang, Shumin
; APPLICANT: Sellins, Karen S.
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES, AND USES THEREOF
; FILE REFERENCE: IM-1-CI-PCT
; CURRENT APPLICATION NUMBER: US/10/790,396
; CURRENT FILING DATE: 2004-03-01
; PRIOR APPLICATION NUMBER: US/09/646,561
; PRIOR FILING DATE: 2000-09-19
; PRIOR APPLICATION NUMBER: 60/078,765
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 09/062,597
; PRIOR FILING DATE: 1998-04-17
; NUMBER OF SEQ ID NOS: 65

; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7
; LENGTH: 329
; TYPE: PRT
; ORGANISM: Canis familiaris
US-10-790-396-7

Query Match 79.0%; Score 1372; DB 16; Length 329;
Best Local Similarity 81.7%; Pred. No. 1.4e-104;
Matches 263; Conservative 22; Mismatches 35; Indels 2; Gaps 2;

QY 7 TMSGLSHLLVMAILLGVSVMKSAQYFNKTGELPCHFTNSQNTSLDELVVFVWQDQKLV 66
DB 6 TMLNNILFVMTLLLYGAASMKSAQYFNKTGELPCHFTNSQNTSLDELVVFVWQDQKLV 65
QY 67 YEIFRGKENPQNVHLYKGRSTFDKDNWTLRLHNVOIKDGYHCFIHYKGPGLVPMHQ 126
DB 66 YELYRGKENPQNVHLYKGRSTFDKDNWTLRLHNVOIKDGLYQCFVHHKGPGLVPMHQ 125
QY 127 MMSDLVLANFSPQETVTSNRTNSGIINLTCSSTQGYPEPKEMYFQNLNTENSTTKYDT 186
DB 126 MMSDLVLANFSPQETVTSNRTNSGIINLTCSSTQGYPEPKEMYFQNLNTENSTTKYDT 185
QY 187 VMKKSQNNVTLYNVSISLSPFVPEAHNVSVFCALKLEMLLSLPFNIDAQPKDKDPE 246
DB 186 VMKKSQNNVTLYNVSISLSPFVPEAHNVSVFCALKLEMLLSLPFNIDAQPKDKDPE 243
QY 247 QGHFLWIAAIVLVFVFCGWSFKTLRKRKKQPGPSHCECTIKRERKESKOTNERVPYH 306
DB 244 GDHILWIAAIVLVFVFCGWSFKTLRKRKKQPGPSHCECTIKRERKESKOTNERVPYH 303
QY 307 VPRSDAQCQVNIKTASGDKN 328
DB 304 ETERSDEAQCQVNIKTASGDKNS 325

RESULT 5

US-10-790-396-17
; Sequence 17, Application US/10790396
; Publication No. US20040157296A1
; GENERAL INFORMATION:
; APPLICANT: Sim, Gek-Kee
; APPLICANT: Yang, Shumin
; APPLICANT: Sellins, Karen S.
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC
; FILE REFERENCES: IM-1-CL-PCT
; CURRENT APPLICATION NUMBER: US/10790,396
; CURRENT FILING DATE: 2004-03-01
; PRIOR APPLICATION NUMBER: US/09/646,561
; PRIOR FILING DATE: 2000-09-19
; PRIOR APPLICATION NUMBER: 60/078,765
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 09/062,597
; PRIOR FILING DATE: 1998-04-17
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 17
; LENGTH: 280
; TYPE: PRT
; ORGANISM: Canis familiaris
US-10-790-396-17

Query Match 66.8%; Score 1157.5; DB 16; Length 280;
Best Local Similarity 70.8%; Pred. No. 5.3e-87;
Matches 228; Conservative 19; Mismatches 24; Indels 51; Gaps 2;

QY 7 TMSGLSHLLVMAILLGVSVMKSAQYFNKTGELPCHFTNSQNTSLDELVVFVWQDQKLV 66
DB 6 TMLNNILFVMTLLLYGAASMKSAQYFNKTGELPCHFTNSQNTSLDELVVFVWQDQKLV 65
QY 67 YEIFRGKENPQNVHLYKGRSTFDKDNWTLRLHNVOIKDGYHCFIHYKGPGLVPMHQ 126

DB 66 YELYRGKENPQNVHLYKGRSTFDKDNWTLRLHNVOIKDGLYQCFVHHKGPGLVPMHQ 125
QY 127 MMSDLVLANFSPQETVTSNRTNSGIINLTCSSTQGYPEPKEMYFQNLNTENSTTKYDT 186
DB 126 MMSDLVLANFSPQETVTSNRTNSGIINLTCSSTQGYPEPKEMYFQNLNTENSTTKYDT 185
QY 187 VMKKSQNNVTLYNVSISLSPFVPEAHNVSVFCALKLEMLLSLPFNIDAQPKDKDPE 246
DB 186 VMKKSQNNVTLYNVSISLSPFVPEAHNVSVFCALKLEMLLSLPFNIDAQPKDKDPE 234
QY 247 QGHFLWIAAIVLVFVFCGWSFKTLRKRKKQPGPSHCECTIKRERKESKOTNERVPYH 306
DB 235 -----ETNKVERKESQTKRVRVH 254
QY 307 VPRSDAQCQVNIKTASGDKN 328
DB 255 ETERSDEAQCQVNIKTASGDKNS 276

RESULT 6

US-08-592-711-4
; Sequence 4, Application US/08592711
; Publication No. US20020115214A1
; GENERAL INFORMATION:
; APPLICANT: June, Carl H.
; APPLICANT: Thompson, Craig B.
; APPLICANT: Nabel, Gary J.
; APPLICANT: Gray, Gary S.
; APPLICANT: Remert, Paul D.
; TITLE OF INVENTION: Methods For Selectively Stimulating Proliferation Of T-Cells
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESS: LAHIVE & COCKFIELD
; STREET: 60 State Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/592,711
; FILING DATE: 26-JAN-1996
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/435,816
; FILING DATE: 4-MAY-1995
; APPLICATION NUMBER: US 08/403,253
; FILING DATE: 10-MARCH-1995
; APPLICATION NUMBER: US 08/253,964
; FILING DATE: 3-JUNE-1994
; APPLICATION NUMBER: US 08/073,223
; FILING DATE: 4-JUNE-1993
; APPLICATION NUMBER: US 08/200,947
; FILING DATE: 23-FEB-1994
; APPLICATION NUMBER: US 07/864,805
; FILING DATE: 7-APR-1992
; APPLICATION NUMBER: US 08/247,505
; FILING DATE: 23-MAY-1994
; APPLICATION NUMBER: US 07/864,866
; FILING DATE: 7-APR-1992
; APPLICATION NUMBER: US 08/218,155
; FILING DATE: 25-MAR-1994
; APPLICATION NUMBER: US 07/864,807
; FILING DATE: 7-APR-1992
; APPLICATION NUMBER: US 07/902,467
; FILING DATE: 16-JUNE-1992
; APPLICATION NUMBER: US 07/275,433
; FILING DATE: 23-NOV-1988
; ATTORNEY/AGENT INFORMATION:
; NAME: Mandragouras, Amy E.

REGISTRATION NUMBER: 36,207
REFERENCE/DOCKET NUMBER: RPI-002CP4
TELEPHONE: (617) 227-7400
TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 329 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-592-711-4

Query Match 52.0%; Score 903; DB 8; Length 329;
Best Local Similarity 58.5%; Pred. No. 6.1e-66;
Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;

QY 7 TWGLSHTLLVMALLSGVSSMKSQAYFNKTGELPCHFTNSQNISLDELVVFWDQDKLVL 66
Db 6 TWGLSNILFWAFLLSGAAPLKIQAIFYNETADLPCCFANSQNSLSELVVFWDQENLVL 65

QY 67 YEIFRGKENPQNVHLKYKRTSFDKDNWTLRLHNVOIKDGYHCHFIHYKGPGLVPMHQ 126
Db 66 NEVYLKKEKFDVSHSKYMGRTSFDSDSWTLRLHNLQIKDGLYQCIHHKKTGMIRIHQ 125

QY 127 MSSDLVLANFSQPEITVTNSRTENSGIINLTCSSTIQGYPEPKEMYFQLTENSTTKYDT 186
Db 126 MNSELVLANFSQPEIVPISNITENV-YINLTCSSTIHGYPEPKKMSVLLRTKNSTIEYDG 184

QY 187 VMKKSQNNVTLYNYSISLPFSVPE-AHNVSVFCALKLETLEMLSLPENIDAQPKDKDP 245
Db 185 IMKQSDNVTELYDVISLSVSPDVTNMTIFCILETDKTR-LLSSPFSIELE--DPQP 241

QY 246 EQGHFWIAAVLVMFVFCGMSVFKTLRK-RKKQPGPSHECETIKRERKESKQTNERP 304
Db 242 PPDHIPWITAVLPT-VIICVMVFCILLWKWKKKRPNRSYKCGTNTMERESEQTKKREK 300

QY 305 YHVPERSDEAQCVC-NILKTASGDKN 328
Db 301 IHIPERSDEAQRVFKSKTSKCDKS 325

US-09-183-055-4
Sequence 4, Application US/09183055
Publication No. US20020076407A1
GENERAL INFORMATION:
APPLICANT: June, Carl H., Thompson, Craig B., Nabel, Gary J.
Gray, Gary S., Rennert, Paul D.
TITLE OF INVENTION: Methods For Selectively Stimulating Proliferation Of T-Cells
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSEE: HALE AND DORR LLP
STREET: 60 State Street
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/183,055
FILING DATE: 30-Oct-1998
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/403,253
FILING DATE: March 10, 1995
APPLICATION NUMBER: US 08/253,964
FILING DATE: 3 JUNE 1994

APPLICATION NUMBER: US 08/073,223
FILING DATE: 4 JUNE 1993
APPLICATION NUMBER: US 08/200,947
FILING DATE: 23 FEB 1994
APPLICATION NUMBER: US 07/864,805
FILING DATE: 7 APR 1992
APPLICATION NUMBER: US 08/247,505
FILING DATE: 23 MAY 1994
APPLICATION NUMBER: US 07/864,866
FILING DATE: 7 APR 1992
APPLICATION NUMBER: US 08/218,155
FILING DATE: 25 MAR 1994
APPLICATION NUMBER: US 07/864,807
FILING DATE: 7 APR 1992
APPLICATION NUMBER: US 07/902,467
FILING DATE: 16 JUNE 1992
APPLICATION NUMBER: US 07/275,433
FILING DATE: 23 NOV 1988
ATTORNEY/AGENT INFORMATION:
NAME: Superko, Colleen
REGISTRATION NUMBER: 39,850
REFERENCE/DOCKET NUMBER: 36119-125US8
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 526-6564
TELEFAX: (617) 526-5000
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 329 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 4:
US-09-183-055-4

Query Match 52.0%; Score 903; DB 9; Length 329;
Best Local Similarity 58.5%; Pred. No. 6.1e-66;
Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;

QY 7 TWGLSHTLLVMALLSGVSSMKSQAYFNKTGELPCHFTNSQNISLDELVVFWDQDKLVL 66
Db 6 TWGLSNILFWAFLLSGAAPLKIQAIFYNETADLPCCFANSQNSLSELVVFWDQENLVL 65

QY 67 YEIFRGKENPQNVHLKYKRTSFDKDNWTLRLHNVOIKDGYHCHFIHYKGPGLVPMHQ 126
Db 66 NEVYLKKEKFDVSHSKYMGRTSFDSDSWTLRLHNLQIKDGLYQCIHHKKTGMIRIHQ 125

QY 127 MSSDLVLANFSQPEITVTNSRTENSGIINLTCSSTIQGYPEPKEMYFQLTENSTTKYDT 186
Db 126 MNSELVLANFSQPEIVPISNITENV-YINLTCSSTIHGYPEPKKMSVLLRTKNSTIEYDG 184

QY 187 VMKKSQNNVTLYNYSISLPFSVPE-AHNVSVFCALKLETLEMLSLPENIDAQPKDKDP 245
Db 185 IMKQSDNVTELYDVISLSVSPDVTNMTIFCILETDKTR-LLSSPFSIELE--DPQP 241

QY 246 EQGHFWIAAVLVMFVFCGMSVFKTLRK-RKKQPGPSHECETIKRERKESKQTNERP 304
Db 242 PPDHIPWITAVLPT-VIICVMVFCILLWKWKKKRPNRSYKCGTNTMERESEQTKKREK 300

QY 305 YHVPERSDEAQCVC-NILKTASGDKN 328
Db 301 IHIPERSDEAQRVFKSKTSKCDKS 325

RESULT 8
US-09-425-762-2
Sequence 2, Application US/09425762
Publication No. US20020086414A1
GENERAL INFORMATION:
APPLICANT: Freeman, Gordon J.
APPLICANT: Nadler, Lee M.
APPLICANT: Gray, Gary S.
TITLE OF INVENTION: No. 6605279el CTLA4/CD28 Ligands and
TITLE OF INVENTION: Uses Therefor

NUMBER OF SEQUENCES: 55
CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD, LLP
STREET: 60 State Street
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patencin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/425,762
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/479,744
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Mandragouras, Amy E.
REGISTRATION NUMBER: 36,207
REFERENCE/DOCKET NUMBER: RPI-004CP3
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 227-7400
TELEFAX: (617) 227-5941
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 329 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-425-762-2

Query Match 52.0%; Score 903; DB 9; Length 329;
Best Local Similarity 58.5%; Pred. No. 6.1e-66;
Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;
QY 7 TMGLSHTLLVMAALLSGVSSMKSQAYFNKTGELPCHFTNSQNSISLDELVVFMDQDKLVL 66
DB 6 TMGLSNILFVMAFLLSGAAPLKIQAIFYNETADLPQCFANSONOSLSLSELVVFMDQENLVL 65
QY 67 YEIFRGKENPQNVHLKYKRTSFDKONWTLRLHNVOIKDKGYHCFHYKGPGLVPMHQ 126
DB 66 NEVYLKGERFDSVHVKYMGRTSFDSDSWTLRLHNLIQDKGLYQCIHHKKPTGMIRIHQ 125
QY 127 MSSDLVLANFSQPEITVTSNRNTENSGIINLTCSISQGYPEPKEMYFQNTENSTTKYDT 186
DB 126 MNSLSVLANFSQPEIVPISNITENV-YINLTCSISGHYPEPKKMSVLLRTRKNTTIEYDG 184
QY 187 VMKKSQNNVTLYNVSISLSPFSVPE-AHNVSVFCALKLETMLLSLPFNIDAQPKDKP 245
DB 185 IMQKSQDNVTLYDVSISLSPFDPVTSNMTIFCILETDKTR-LLSSPFSIELE--DPQP 241
QY 246 EQGHFLWIAAVLMVFVFCGMVSFKTLRK-RKKQKQPGSHECETIKRKERKSKOTNERVP 304
DB 242 PPDHPIWITAVLPT-VIICVMVFCILWKKKKRPNRYKCGTNTWREESQTKKREK 300
QY 305 YHVPERSDAQC-VNLTASGDKN 328
DB 301 IHIPERSDAQRVFKSKTSKCDKS 325

RESULT 9
US-09-837-867A-23
Sequence 23, Application US/09837867A
Patent No. US20020098542A1
GENERAL INFORMATION:
APPLICANT: Sharpe, Arlene H.
APPLICANT: Borriello, Francescopaulo
APPLICANT: Freeman, Gordon J.
APPLICANT: Nadler, Lee M.

TITLE OF INVENTION: No. US20020098542A1 Forms of T Cell Costimulatory
FILE OF INVENTION: Molecules and Uses Therefor
FILE REFERENCE: BWI-120CPADV
CURRENT APPLICATION NUMBER: US/09/837,867A
CURRENT FILING DATE: 2001-04-17
PRIOR APPLICATION NUMBER: 08/205,697
PRIOR FILING DATE: 1994-03-02
NUMBER OF SEQ ID NOS: 42
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 23
LENGTH: 329
TYPE: PRT
ORGANISM: Homo sapiens
US-09-837-867A-23

Query Match 52.0%; Score 903; DB 9; Length 329;
Best Local Similarity 58.5%; Pred. No. 6.1e-66;
Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;
QY 7 TMGLSHTLLVMAALLSGVSSMKSQAYFNKTGELPCHFTNSQNSISLDELVVFMDQDKLVL 66
DB 6 TMGLSNILFVMAFLLSGAAPLKIQAIFYNETADLPQCFANSONOSLSLSELVVFMDQENLVL 65
QY 67 YEIFRGKENPQNVHLKYKRTSFDKONWTLRLHNVOIKDKGYHCFHYKGPGLVPMHQ 126
DB 66 NEVYLKGERFDSVHVKYMGRTSFDSDSWTLRLHNLIQDKGLYQCIHHKKPTGMIRIHQ 125
QY 127 MSSDLVLANFSQPEITVTSNRNTENSGIINLTCSISQGYPEPKEMYFQNTENSTTKYDT 186
DB 126 MNSLSVLANFSQPEIVPISNITENV-YINLTCSISGHYPEPKKMSVLLRTRKNTTIEYDG 184
QY 187 VMKKSQNNVTLYNVSISLSPFSVPE-AHNVSVFCALKLETMLLSLPFNIDAQPKDKP 245
DB 185 IMQKSQDNVTLYDVSISLSPFDPVTSNMTIFCILETDKTR-LLSSPFSIELE--DPQP 241
QY 246 EQGHFLWIAAVLMVFVFCGMVSFKTLRK-RKKQKQPGSHECETIKRKERKSKOTNERVP 304
DB 242 PPDHPIWITAVLPT-VIICVMVFCILWKKKKRPNRYKCGTNTWREESQTKKREK 300
QY 305 YHVPERSDAQC-VNLTASGDKN 328
DB 301 IHIPERSDAQRVFKSKTSKCDKS 325

RESULT 10
US-09-441-411-26
Sequence 26, Application US/09441411
Publication No. US20030008342A1
GENERAL INFORMATION:
APPLICANT: Scholler, Nathalie B.
APPLICANT: Disis, Mary L.
APPLICANT: Hellstrom, Ingegerd
APPLICANT: Hellstrom, Karl Erik
TITLE OF INVENTION: SURFACE RECEPTOR ANTIGEN VACCINES
FILE REFERENCE: 730033.409
CURRENT APPLICATION NUMBER: US/09/441,411
CURRENT FILING DATE: 1999-11-16
NUMBER OF SEQ ID NOS: 26
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 26
LENGTH: 329
TYPE: PRT
ORGANISM: Homo sapiens
US-09-441-411-26

Query Match 52.0%; Score 903; DB 10; Length 329;
Best Local Similarity 58.5%; Pred. No. 6.1e-66;
Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;
QY 7 TMGLSHTLLVMAALLSGVSSMKSQAYFNKTGELPCHFTNSQNSISLDELVVFMDQDKLVL 66
DB 6 TMGLSNILFVMAFLLSGAAPLKIQAIFYNETADLPQCFANSONOSLSLSELVVFMDQENLVL 65


```
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: RPI-002CP2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 742-4214
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 329 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-350-202-4

Query Match      52.0%; Score 903; DB 10; Length 329;
Best Local Similarity 58.5%; Pred. No. 6.1e-66;
Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;

QY 7 TMGLSHLLVMAALLSGVSMKQAYFNKGTGELPCHFTNSQNSLDELVVFWDQDKLV 66
DB 6 TMGLSNILFVMAFLLSGAAPLKIQAQVFNETADLPQCFANSQNSLSELVVFWDQENLV 65
QY 67 YEIFRGKENPQNVHLKYKGTSTFDKONWTLRLHNVOIKDKGTGTHCPHYKGPGLVPMHQ 126
DB 66 NEVYLGEKEDSVHVKYMGRTSFDSWTLRLHNLQIKDKGLYQCIHHKKPTGMIRIHQ 125
QY 127 MSSDLSVLANFSQPEITVTSNRTENSGIINLTCSIIQGYPEPKEMYFQMLNTENSTTKYDT 186
DB 126 MNSLSVLANFSQPEIVPISNITENV-YINLTCSIIHGYPEPKKMSVLLRTKNSTIEYDG 184
QY 187 VMKQSNVTVLYNVSISLPFSVPE-AHNVSVFCALKLETLEMLLSPNIDAPKDKOP 245
DB 185 IMQSQDNVTLYDVSISSLSVFPDVTNSMTIFCILETDKTR-LLSSPFSIELE--DPQP 241
QY 246 EQGHFLWIAAVLVMVFVFCGMVSFKTLRK-RKKQKQPSHECETIKRKERKESKQTNERP 304
DB 242 PPHIPIWITAVLPT-VIIICVMVFCILILWKWKKKRPRNSYKCGTNTWREESQTKKREK 300
QY 305 YHVPERSDAQCV-NILKTASGDKN 328
DB 301 IHIPERSDAQRVFKSKTSKCDKS 325

RESULT 13
US-10-041-319-8
; Sequence 8, Application US/10041319
; Publication No. US20030180309A1
; GENERAL INFORMATION:
; APPLICANT: Immunex Corporation
; APPLICANT: Baum, Peter R.
; APPLICANT: DuBoise, Robert F.
; APPLICANT: Wiley, Steven R.
; TITLE OF INVENTION: HUMAN B7 POLYPEPTIDES
; FILE REFERENCE: 3176-A
; CURRENT APPLICATION NUMBER: US/10/041,319
; CURRENT FILING DATE: 2002-01-07
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 8
; LENGTH: 329
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-041-319-8

Query Match      52.0%; Score 903; DB 14; Length 329;
Best Local Similarity 58.5%; Pred. No. 6.1e-66;
Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;

QY 7 TMGLSHLLVMAALLSGVSMKQAYFNKGTGELPCHFTNSQNSLDELVVFWDQDKLV 66
DB 6 TMGLSNILFVMAFLLSGAAPLKIQAQVFNETADLPQCFANSQNSLSELVVFWDQENLV 65
QY 67 YEIFRGKENPQNVHLKYKGTSTFDKONWTLRLHNVOIKDKGTGTHCPHYKGPGLVPMHQ 126
DB 66 NEVYLGEKEDSVHVKYMGRTSFDSWTLRLHNLQIKDKGLYQCIHHKKPTGMIRIHQ 125
QY 127 MSSDLSVLANFSQPEITVTSNRTENSGIINLTCSIIQGYPEPKEMYFQMLNTENSTTKYDT 186
DB 126 MNSLSVLANFSQPEIVPISNITENV-YINLTCSIIHGYPEPKKMSVLLRTKNSTIEYDG 184
QY 187 VMKQSNVTVLYNVSISLPFSVPE-AHNVSVFCALKLETLEMLLSPNIDAPKDKOP 245
DB 185 IMQSQDNVTLYDVSISSLSVFPDVTNSMTIFCILETDKTR-LLSSPFSIELE--DPQP 241
QY 246 EQGHFLWIAAVLVMVFVFCGMVSFKTLRK-RKKQKQPSHECETIKRKERKESKQTNERP 304
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QY 305 YHVPERSDAQCV-NILKTASGDKN 328
DB 301 IHIPERSDAQRVFKSKTSKCDKS 325

RESULT 14
US-10-390-330-4
; Sequence 4, Application US/10390330
; Publication No. US20040001829A1
; GENERAL INFORMATION:
; APPLICANT: June, Carl H.
; APPLICANT: Thompson, Craig B.
; APPLICANT: Nabel, Gary J.
; APPLICANT: Gray, Gary S.
; APPLICANT: Remmert, Paul D.
; TITLE OF INVENTION: Methods For Selectively Stimulating Proliferation
; TITLE OF INVENTION: Of T-Cells
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 State Street, Suite 510
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/390,330
; FILING DATE: March 17, 2003
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/435,816A
; FILING DATE: May 4, 1995
; CLASSIFICATION:
; APPLICATION NUMBER: US 08/403,253
; FILING DATE: 10 MARCH 1995
; APPLICATION NUMBER: US 08/253,964
; FILING DATE: 3 JUNE 1994
; APPLICATION NUMBER: US 08/073,223
; FILING DATE: 4 JUNE 1993
; APPLICATION NUMBER: US 08/200,947
; FILING DATE: 23 FEB 1994
; APPLICATION NUMBER: US 07/864,805
; FILING DATE: 7 APR 1992
; APPLICATION NUMBER: US 08/218,155
; FILING DATE: 25 MAR 1994
; APPLICATION NUMBER: US 07/864,807
; FILING DATE: 7 APR 1992
; APPLICATION NUMBER: US 07/902,467
; FILING DATE: 16 JUNE 1992
; APPLICATION NUMBER: US 07/275,433
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;
; FILING DATE: 23 NOV 1988
; ATTORNEY/AGENT INFORMATION:
; NAME: Mandragouras, Amy E.
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: RPI-002CP3
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 329 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-10-390-330-4

Query Match 52.0%; Score 903; DB 15; Length 329;
Best Local Similarity 58.5%; Pred. No. 6.1e-66;
Matches 190; Conservative 44; Mismatches 83; Indels 8; Gaps 7;

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Db	6	TMGLSNILFVMAFLLSGAAPLKIQAYFNETADLPQCFANSONQSLSELVVFQDQENLVL	65
Qy	67	YEIFRGKENPQNVHLKYKRTSPDKDNWTLRLHNVOIKDGTGHCYHFKGPKGLVPMHQ	126
Db	66	NEVYLGEKEDSVHVKYMGRTSDSDSWTLRLHNQIKDGLYQCLIIHHKKTGMIRIHQ	125
Qy	127	MSSDLSVLANFSQPEITVTNSRTNSGIINLTCSSTQGYPEPKEMYFQLTENSTTKYDT	186
Db	126	MNSLSVLANFSQPEIPIVPSNITENV-YINLTCSSTHGYPPEPKMSVLLRTKNSTIEYDG	184
Qy	187	VMKKSQNNVTLYNVSISLPFSVPE-AHNVSVFCALKLETLEMLLSLPNIDAQPKDKDP	245
Db	185	IMQSQDNVTLYDVSISLSVSPDVTNMTIFCILETDKTR-LLSSPFSIELE--DPQP	241
Qy	246	EQGHFLWIAAIVLMVFVFCGMVSFKTLRK-RKKQKPGPSHECETIKRERKESKQTNERP	304
Db	242	PPDHIPWITAVLPT-VIICVMVFCILILWKWKKKRPRNSYKCGTNTMERERESEQTKKREK	300
Qy	305	YHVPERSDEAQCVC-NILKTASGDKN	328
Db	301	IHIPERSDEAQRVFKSKTSKCDKS	325

RESULT 15
US-10-643-768-23
; Sequence 23; Application US/10643768
; Publication No. US20040192899A1
; GENERAL INFORMATION:
; APPLICANT: Sharpe, Arlene H.
; APPLICANT: Borriello, Francescopaulo
; APPLICANT: Freeman, Gordon J.
; APPLICANT: Nadler, Lee M.
; TITLE OF INVENTION: Novel Forms of T Cell Costimulatory
; FILE REFERENCE: BHI-120CPADV
; CURRENT APPLICATION NUMBER: US/10/643,768
; CURRENT FILING DATE: 2003-08-18
; PRIOR APPLICATION NUMBER: US/09/837,867
; PRIOR FILING DATE: 2001-04-17
; PRIOR APPLICATION NUMBER: 08/205,697
; PRIOR FILING DATE: 1994-03-02
; NUMBER OF SEQ ID NOS: 42
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 23
; LENGTH: 329
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-643-768-23

Query Match 52.0%; Score 903; DB 16; Length 329;
Best Local Similarity 58.5%; Pred. No. 6.1e-66;

Matches	190;	Conservative	44;	Mismatches	83;	Indels	8;	Gaps	7;
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Db	6	TMGLSNILFVMAFLLSGAAPLKIQAYFNETADLPQCFANSONQSLSELVVFQDQENLVL	65						
Qy	67	YEIFRGKENPQNVHLKYKRTSPDKDNWTLRLHNVOIKDGTGHCYHFKGPKGLVPMHQ	126						
Db	66	NEVYLGEKEDSVHVKYMGRTSDSDSWTLRLHNQIKDGLYQCLIIHHKKTGMIRIHQ	125						
Qy	127	MSSDLSVLANFSQPEITVTNSRTNSGIINLTCSSTQGYPEPKEMYFQLTENSTTKYDT	186						
Db	126	MNSLSVLANFSQPEIPIVPSNITENV-YINLTCSSTHGYPPEPKMSVLLRTKNSTIEYDG	184						
Qy	187	VMKKSQNNVTLYNVSISLPFSVPE-AHNVSVFCALKLETLEMLLSLPNIDAQPKDKDP	245						
Db	185	IMQSQDNVTLYDVSISLSVSPDVTNMTIFCILETDKTR-LLSSPFSIELE--DPQP	241						
Qy	246	EQGHFLWIAAIVLMVFVFCGMVSFKTLRK-RKKQKPGPSHECETIKRERKESKQTNERP	304						
Db	242	PPDHIPWITAVLPT-VIICVMVFCILILWKWKKKRPRNSYKCGTNTMERERESEQTKKREK	300						
Qy	305	YHVPERSDEAQCVC-NILKTASGDKN	328						
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Search completed: August 17, 2005, 19:12:19
Job time : 164 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: August 17, 2005, 18:53:53 ; Search time 483 Seconds
(without alignments)
795.598 Million cell updates/sec

Title: US-09-303-510-6

Perfect score: 1737

Sequence: 1 MGICDSTMGLSHTLLVMALL.....RSDAQCVNLTASGDKNQ 329

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 6959266 segs, 1168006243 residues

Total number of hits satisfying chosen parameters: 6959266

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Pending_Patents_AA Main:*

- 1: /cgn2_6/ptodata/1/paa/US06 COMB.pcp.*
- 2: /cgn2_6/ptodata/1/paa/US06 COMB.pcp.*
- 3: /cgn2_6/ptodata/1/paa/US07 COMB.pcp.*
- 4: /cgn2_6/ptodata/1/paa/US08 COMB.pcp.*
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- 37: /cgn2_6/ptodata/1/paa/US09 COMB.pcp.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	DB	ID	Description
1	1737	100.0	329	14	US-09-071-699-6	Sequence 6, Appli
2	1737	100.0	329	17	US-09-303-040-6	Sequence 6, Appli
3	1737	100.0	329	17	US-09-303-510-6	Sequence 6, Appli
4	1737	100.0	329	22	US-09-791-537-51999	Sequence 51999, A
5	1737	100.0	329	26	US-10-069-626-18	Sequence 18, Appl
6	1737	99.4	332	14	US-09-062-597A-26	Sequence 26, Appl
7	1736	99.4	332	20	US-09-646-561-26	Sequence 26, Appl
8	1726	99.4	332	33	US-10-790-396-26	Sequence 26, Appl
9	1372	79.0	329	14	US-09-062-597A-7	Sequence 7, Appli
10	1372	79.0	329	20	US-09-646-561-7	Sequence 7, Appli
11	1372	79.0	329	26	US-10-069-626-19	Sequence 19, Appl
12	1372	79.0	329	33	US-10-790-396-7	Sequence 7, Appli
13	1157.5	66.6	280	14	US-09-062-597A-17	Sequence 17, Appl
14	1157.5	66.6	280	20	US-09-646-561-17	Sequence 17, Appl
15	1157.5	66.6	280	22	US-09-791-537-37771	Sequence 37771, A
16	1157.5	66.6	280	33	US-10-790-396-17	Sequence 17, Appl
17	1157	66.6	325	26	US-10-069-626-20	Sequence 20, Appl
18	1157	66.6	330	23	US-09-868-605-14	Sequence 14, Appl
19	943.5	54.3	330	22	US-09-791-537-10853	Sequence 10853, A
20	932	53.7	372	35	US-10-940-774-11132	Sequence 11132, A
21	903	52.0	329	1	PCT-US03-12946-2520	Sequence 2520, Ap
22	903	52.0	329	5	US-08-109-393-2	Sequence 2, Appli
23	903	52.0	329	5	US-08-109-393A-2	Sequence 2, Appli
24	903	52.0	329	5	US-08-147-773-2	Sequence 2, Appli
25	903	52.0	329	6	US-08-280-757-2	Sequence 2, Appli
26	903	52.0	329	9	US-08-592-711-4	Sequence 4, Appli
27	903	52.0	329	15	US-09-183-055-4	Sequence 4, Appli
28	903	52.0	329	17	US-09-349-915A-4	Sequence 4, Appli
29	903	52.0	329	17	US-09-349-915B-4	Sequence 4, Appli
30	903	52.0	329	17	US-09-350-202-4	Sequence 4, Appli
31	903	52.0	329	19	US-09-553-865-4	Sequence 4, Appli
32	903	52.0	329	19	US-09-565-316A-4	Sequence 4, Appli
33	903	52.0	329	21	US-09-716-928-4	Sequence 4, Appli
34	903	52.0	329	21	US-09-716-928A-4	Sequence 4, Appli
35	903	52.0	329	22	US-09-791-537-10852	Sequence 10852, A
36	903	52.0	329	25	US-09-962-969-23	Sequence 23, Appl
37	903	52.0	329	25	US-09-962-969B-23	Sequence 23, Appl
38	903	52.0	329	26	US-10-041-319-8	Sequence 8, Appli
39	903	52.0	329	28	US-10-219-051B-10735	Sequence 10735, A
40	903	52.0	329	29	US-10-390-330-4	Sequence 4, Appli
41	903	52.0	329	30	US-10-429-079B-2	Sequence 2, Appli
42	903	52.0	329	32	US-10-643-768-23	Sequence 23, Appl
43	903	52.0	329	33	US-10-756-783-6	Sequence 6, Appli
44	903	52.0	329	33	US-10-762-128-26	Sequence 26, Appl
45	903	52.0	329	33	US-10-767-561-2	Sequence 2, Appli

ALIGNMENTS

RESULT 1
US-09-071-699-6
; Sequence 6, Application US/09071699A
; GENERAL INFORMATION:
; APPLICANT: Collison, Ellen W
; APPLICANT: Hash, Stephen M.
; APPLICANT: Inou, Choji
; TITLE OF INVENTION: Feline CD80, Feline CD86, Feline CTLA-4 Nucleic Acid
; TITLE OF INVENTION: And Polypeptides
; FILE REFERENCE: 54954-A
; CURRENT APPLICATION NUMBER: US/09/071,699A
; CURRENT FILING DATE: 1998-05-01
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 6
; LENGTH: 329
; TYPE: PRT
; ORGANISM: feline CD86
US-09-071-699-6

Query Match 100.0%; Score 1737; DB 14; Length 329;
Best Local Similarity 100.0%; Pred. No. 1.3e-157;
Matches 329; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 181 TTKYDVTVMKSSQNNVTLYNVSISLPFSVPEAHNVSVFCAKLETLEMLLSLPFNDAQ 240
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QY 241 KDKDPEQGHFLWIAAALVVMFVFCGMVSPKTLRKRKKQPGPSHECETIKRERKESQTN 300
DB 241 KDKDPEQGHFLWIAAALVVMFVFCGMVSPKTLRKRKKQPGPSHECETIKRERKESQTN 300

QY 301 ERVPYHVPERSDEAQCQVNLKTASGDKNQ 329
DB 301 ERVPYHVPERSDEAQCQVNLKTASGDKNQ 329

RESULT 2
US-09-303-040-6
; Sequence 6, Application US/09303040
; GENERAL INFORMATION:
; APPLICANT: Winslow, Barbara J.
; TITLE OF INVENTION: Recombinant Virus Expressing Foreign DNA Encoding
; TITLE OF INVENTION: Feline CD80, Feline CD86, Feline CD28, Feline CTLA-4 or
; TITLE OF INVENTION: Feline Interferon-gamma And Uses Thereof
; FILE REFERENCE: 54957-B
; CURRENT APPLICATION NUMBER: US/09/303,040
; PRIOR FILING DATE: 1999-04-30
; PRIOR APPLICATION NUMBER: 60/083,870
; NUMBER OF SEQ ID NOS: 82
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 6
; LENGTH: 329
; TYPE: PRT
; ORGANISM: feline CD86
US-09-303-040-6

Query Match 100.0%; Score 1737; DB 17; Length 329;
Best Local Similarity 100.0%; Pred. No. 1.3e-157;
Matches 329; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 61 QDKLVLYEYFRGKPNQVHLKYKRTSFDKDNWTLRLHNQIKDGTGTHCFIHYKPGK 120
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Db 241 KDKDPEQGHFLWIAAALVVMFVFCGMVSPKTLRKRKKQPGPSHECETIKRERKESQTN 300
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RESULT 3
US-09-303-510-6
; Sequence 6, Application US/09303510A
; GENERAL INFORMATION:
; APPLICANT: Collisson, Ellen W.
; APPLICANT: Hash, Stephen M.
; APPLICANT: Choi, InSoo
; TITLE OF INVENTION: Feline CD80, Feline CD86, Feline CD28, and Feline
; TITLE OF INVENTION: CTLA-4 Nucleic Acid and Polypeptides
; FILE REFERENCE: 54954
; CURRENT APPLICATION NUMBER: US/09/303,510A
; EARLIER FILING DATE: 1999-04-30
; EARLIER APPLICATION NUMBER: 60/083,869
; EARLIER FILING DATE: 1998-05-01
; NUMBER OF SEQ ID NOS: 83
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 6
; LENGTH: 329
; TYPE: PRT
; ORGANISM: Feline
US-09-303-510-6

Query Match 100.0%; Score 1737; DB 17; Length 329;
Best Local Similarity 100.0%; Pred. No. 1.3e-157;
Matches 329; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 121 LVPMHQMSDLSVLNFSQPEITVTSNRTENSGIINLTCSIQGYPEPKMYFQNTENS 180
DB 121 LVPMHQMSDLSVLNFSQPEITVTSNRTENSGIINLTCSIQGYPEPKMYFQNTENS 180

QY 181 TTKYDVTVMKSSQNNVTLYNVSISLPFSVPEAHNVSVFCAKLETLEMLLSLPFNDAQ 240
DB 181 TTKYDVTVMKSSQNNVTLYNVSISLPFSVPEAHNVSVFCAKLETLEMLLSLPFNDAQ 240

QY 241 KDKDPEQGHFLWIAAALVVMFVFCGMVSPKTLRKRKKQPGPSHECETIKRERKESQTN 300
DB 241 KDKDPEQGHFLWIAAALVVMFVFCGMVSPKTLRKRKKQPGPSHECETIKRERKESQTN 300

QY 301 ERVPYHVPERSDEAQCQVNLKTASGDKNQ 329
DB 301 ERVPYHVPERSDEAQCQVNLKTASGDKNQ 329

RESULT 4
US-09-791-537-51999
; Sequence 51999, Application US/09791537
; GENERAL INFORMATION:
; APPLICANT: Bionomix, Inc.
; APPLICANT: Debe, Derek
; APPLICANT: Danzer, Joseph
; TITLE OF INVENTION: THREE DIMENSIONAL STRUCTURES OF PROTEIN FAMILIES AND FAMILY MEMB
; TITLE OF INVENTION: METHODS OF USE THEREOF
; FILE REFERENCE: 261/210
; CURRENT APPLICATION NUMBER: US/09/791,537
; CURRENT FILING DATE: 2001-02-22
; NUMBER OF SEQ ID NOS: 153055
; SOFTWARE: Patent in version 3.0


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; SEQ ID NO 51999
; LENGTH: 329
; TYPE: PRT
; ORGANISM: Felis catus
US-09-791-537-51999

Query Match      100.0%; Score 1737; DB 22; Length 329;
Best Local Similarity 100.0%; Pred. No. 1.3e-157;
Matches 329; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGICDSTWGLSHLTLLVWALLSGVSSMKSOAYFNKTGELPCHFTNSQNI SLDEL VVWQD 60
DB 1 MGICDSTWGLSHLTLLVWALLSGVSSMKSOAYFNKTGELPCHFTNSQNI SLDEL VVWQD 60
QY 61 QDKLVLYEYIFRGKENPQNVHLKYKGRTSFDKNWTLRLHNVQIKDGTGTHCFHYKGPKG 120
DB 61 QDKLVLYEYIFRGKENPQNVHLKYKGRTSFDKNWTLRLHNVQIKDGTGTHCFHYKGPKG 120
QY 121 LVPMHQSSDLSVLANFSQPEITVTSNRNTENSIGIINLTCSIIQGYPEPKEMYFQLNTENS 180
DB 121 LVPMHQSSDLSVLANFSQPEITVTSNRNTENSIGIINLTCSIIQGYPEPKEMYFQLNTENS 180
QY 181 TTKYDVTVMKKSQNNVTLYNVSISLPFSVPEAHNVSVFCALKLETLEMLLSLPFNIDAQP 240
DB 181 TTKYDVTVMKKSQNNVTLYNVSISLPFSVPEAHNVSVFCALKLETLEMLLSLPFNIDAQP 240
QY 241 KKDPEQGHFLWIAAALVLMFVFCGMVSFKTLRKRKKQPGPSHECETIKRERKESKQTN 300
DB 241 KKDPEQGHFLWIAAALVLMFVFCGMVSFKTLRKRKKQPGPSHECETIKRERKESKQTN 300
QY 301 ERVPYHVPERSDAQCQVNIKTASGDKNQ 329
DB 301 ERVPYHVPERSDAQCQVNIKTASGDKNQ 329

RESULT 5
US-10-069-626-18
; Sequence 18, Application US/10069626
; GENERAL INFORMATION:
; APPLICANT: Green et al.
; TITLE OF INVENTION: Polynucleotides Encoding Members of the Human B
; TITLE OF INVENTION: Lymphocyte Activation Antigen B-7 Family and
; FILE REFERENCE: 15966-562 NATL
; CURRENT FILING DATE: 2002-07-25
; PRIOR FILING DATE: 2000-08-31
; PRIOR APPLICATION NUMBER: PCT/US00/24220
; PRIOR FILING DATE: 2000-08-31
; PRIOR APPLICATION NUMBER: 60/152383
; PRIOR FILING DATE: 1999-09-03
; PRIOR APPLICATION NUMBER: 60/172909
; PRIOR FILING DATE: 1999-12-21
; PRIOR APPLICATION NUMBER: 60/183578
; PRIOR FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: 09/651200
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 18
; LENGTH: 329
; TYPE: PRT
; ORGANISM: Felis catus
US-10-069-626-18

Query Match      100.0%; Score 1737; DB 26; Length 329;
Best Local Similarity 100.0%; Pred. No. 1.3e-157;
Matches 329; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGICDSTWGLSHLTLLVWALLSGVSSMKSOAYFNKTGELPCHFTNSQNI SLDEL VVWQD 60
DB 1 MGICDSTWGLSHLTLLVWALLSGVSSMKSOAYFNKTGELPCHFTNSQNI SLDEL VVWQD 60
QY 61 QDKLVLYEYIFRGKENPQNVHLKYKGRTSFDKNWTLRLHNVQIKDGTGTHCFHYKGPKG 120

; SEQ ID NO 51999
; LENGTH: 329
; TYPE: PRT
; ORGANISM: Felis catus
US-09-791-537-51999

Query Match      100.0%; Score 1737; DB 22; Length 329;
Best Local Similarity 100.0%; Pred. No. 1.3e-157;
Matches 329; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGICDSTWGLSHLTLLVWALLSGVSSMKSOAYFNKTGELPCHFTNSQNI SLDEL VVWQD 60
DB 1 MGICDSTWGLSHLTLLVWALLSGVSSMKSOAYFNKTGELPCHFTNSQNI SLDEL VVWQD 60
QY 61 QDKLVLYEYIFRGKENPQNVHLKYKGRTSFDKNWTLRLHNVQIKDGTGTHCFHYKGPKG 120
DB 61 QDKLVLYEYIFRGKENPQNVHLKYKGRTSFDKNWTLRLHNVQIKDGTGTHCFHYKGPKG 120
QY 121 LVPMHQSSDLSVLANFSQPEITVTSNRNTENSIGIINLTCSIIQGYPEPKEMYFQLNTENS 180
DB 121 LVPMHQSSDLSVLANFSQPEITVTSNRNTENSIGIINLTCSIIQGYPEPKEMYFQLNTENS 180
QY 181 TTKYDVTVMKKSQNNVTLYNVSISLPFSVPEAHNVSVFCALKLETLEMLLSLPFNIDAQP 240
DB 181 TTKYDVTVMKKSQNNVTLYNVSISLPFSVPEAHNVSVFCALKLETLEMLLSLPFNIDAQP 240
QY 241 KKDPEQGHFLWIAAALVLMFVFCGMVSFKTLRKRKKQPGPSHECETIKRERKESKQTN 300
DB 241 KKDPEQGHFLWIAAALVLMFVFCGMVSFKTLRKRKKQPGPSHECETIKRERKESKQTN 300
QY 301 ERVPYHVPERSDAQCQVNIKTASGDKNQ 329
DB 301 ERVPYHVPERSDAQCQVNIKTASGDKNQ 329

RESULT 6
US-09-062-597A-26
; Sequence 26, Application US/09062597A
; GENERAL INFORMATION:
; APPLICANT: Sim, Gek-Kee
; APPLICANT: Yang, Shumin
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY
; TITLE OF INVENTION: PROTEINS, NUCLEIC ACID MOLECULES, AND
; NUMBER OF SEQUENCES: 29
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Carol Talkington Vereer, Ph.D.
; STREET: 1825 Sharp Point Drive
; CITY: Fort Collins
; STATE: Colorado
; COUNTRY: USA
; ZIP: 80525
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: Windows 95
; SOFTWARE: WordPerfect for Windows, Version 7.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/062,597A
; FILING DATE: 17-APR-1998
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Vereer, Carol Talkington
; REGISTRATION NUMBER: 37,459
; REFERENCE/DOCKET NUMBER: IM-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 970/493-7272
; TELEFAX: 970/484-9505
; INFORMATION FOR SEQ ID NO: 26:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 332 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: Protein
US-09-062-597A-26

Query Match      99.4%; Score 1726; DB 14; Length 332;
Best Local Similarity 99.4%; Pred. No. 1.5e-156;
Matches 326; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGICDSTWGLSHLTLLVWALLSGVSSMKSOAYFNKTGELPCHFTNSQNI SLDEL VVWQD 60
DB 1 MGICDSTWGLSHLTLLVWALLSGVSSMKSOAYFNKTGELPCHFTNSQNI SLDEL VVWQD 60
QY 61 QDKLVLYEYIFRGKENPQNVHLKYKGRTSFDKNWTLRLHNVQIKDGTGTHCFHYKGPKG 120
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Db 61 QDKLVLYEIPRGKENPQNVHLKYKGRTSFDKDNWTLRLHNVQIKDGTGTHCFHYKGPKG 120
QY 121 LVPMHQMSDLSVLANFSQPEITVTSNRTENSIGIINLTCSIIQGYPEPKEMYFQNTENS 180
Db 121 LVPMHQMSDLSVLANFSQPEITVTSNRTENSIGIINLTCSIIQGYPEPKEMYFQNTENS 180
QY 181 TTKYDVTVMKSSQNNVTLYNVSISLPSFVPEAHNVSVFCALKLETLEMLLSLPPFNIDAQ 240
Db 181 TTKYDVTVMKSSQNNVTLYNVSISLPSFVPEAHNVSVFCALKLETLEMLLSLPPFNIDAQ 240
QY 241 KDKDPEQGHFLWIAAALVLMVFCGMVSPKTLRKRKKQPGPSHECETIKRERKESKQTN 300
Db 241 KDKDPEQGHFLWIAAALVLMVFCGMVSPKTLRKRKKQPGPSHECETIKRERKESKQTN 300
QY 301 ERVPYHVPSRDEAQCWNILKTASGDKN 328
Db 301 ERVPYHVPSRDEAQCWNILKTASGDKN 328

RESULT 7

US-09-646-561-26
; Sequence 26, Application US/09646561
; GENERAL INFORMATION:
; APPLICANT: Yang, Gek-Kee
; APPLICANT: Yang, Shumin
; APPLICANT: Sellins, Karen S.
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES, AND USES THEREOF
; FILE REFERENCE: IM-1-C1-PCT
; CURRENT APPLICATION NUMBER: US/09/646,561
; PRIOR FILING DATE: 2000-09-19
; PRIOR APPLICATION NUMBER: 60/078,765
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 09/062,597
; PRIOR FILING DATE: 1998-04-17
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 26
; LENGTH: 332
; TYPE: PRT
; ORGANISM: Felis catus
US-09-646-561-26

Query Match 99.4%; Score 1726; DB 20; Length 332;
Best Local Similarity 99.4%; Pred. No. 1.5e-156;
Matches 326; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGICDSTMGLSHTLLVMALLSGVSSMKSQAYFNKTGELPCHFTNSQNTSLDELVVFWD 60
Db 1 MGICDSTMGLSHTLLVMALLSGVSSMKSQAYFNKTGELPCHFTNSQNTSLDELVVFWD 60
QY 61 QDKLVLYEIPRGKENPQNVHLKYKGRTSFDKDNWTLRLHNVQIKDGTGTHCFHYKGPKG 120
Db 61 QDKLVLYEIPRGKENPQNVHLKYKGRTSFDKDNWTLRLHNVQIKDGTGTHCFHYKGPKG 120
QY 121 LVPMHQMSDLSVLANFSQPEITVTSNRTENSIGIINLTCSIIQGYPEPKEMYFQNTENS 180
Db 121 LVPMHQMSDLSVLANFSQPEITVTSNRTENSIGIINLTCSIIQGYPEPKEMYFQNTENS 180
QY 181 TTKYDVTVMKSSQNNVTLYNVSISLPSFVPEAHNVSVFCALKLETLEMLLSLPPFNIDAQ 240
Db 181 TTKYDVTVMKSSQNNVTLYNVSISLPSFVPEAHNVSVFCALKLETLEMLLSLPPFNIDAQ 240
QY 241 KDKDPEQGHFLWIAAALVLMVFCGMVSPKTLRKRKKQPGPSHECETIKRERKESKQTN 300
Db 241 KDKDPEQGHFLWIAAALVLMVFCGMVSPKTLRKRKKQPGPSHECETIKRERKESKQTN 300
QY 301 ERVPYHVPSRDEAQCWNILKTASGDKN 328
Db 301 ERVPYHVPSRDEAQCWNILKTASGDKN 328

RESULT 9

US-10-790-396-26
; Sequence 26, Application US/10790396
; GENERAL INFORMATION:
; APPLICANT: Sim, Gek-Kee
; APPLICANT: Yang, Shumin
; APPLICANT: Sellins, Karen S.
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES, AND USES THEREOF
; FILE REFERENCE: IM-1-C1-PCT
; CURRENT APPLICATION NUMBER: US/10/790,396
; CURRENT FILING DATE: 2004-03-01
; PRIOR APPLICATION NUMBER: US/09/646,561
; PRIOR FILING DATE: 2000-09-19
; PRIOR APPLICATION NUMBER: 60/078,765
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 09/062,597
; PRIOR FILING DATE: 1998-04-17
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 26
; LENGTH: 332
; TYPE: PRT
; ORGANISM: Felis catus
US-10-790-396-26

Query Match 99.4%; Score 1726; DB 33; Length 332;
Best Local Similarity 99.4%; Pred. No. 1.5e-156;
Matches 326; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 MGICDSTMGLSHTLLVMALLSGVSSMKSQAYFNKTGELPCHFTNSQNTSLDELVVFWD 60
Db 1 MGICDSTMGLSHTLLVMALLSGVSSMKSQAYFNKTGELPCHFTNSQNTSLDELVVFWD 60
QY 61 QDKLVLYEIPRGKENPQNVHLKYKGRTSFDKDNWTLRLHNVQIKDGTGTHCFHYKGPKG 120
Db 61 QDKLVLYEIPRGKENPQNVHLKYKGRTSFDKDNWTLRLHNVQIKDGTGTHCFHYKGPKG 120
QY 121 LVPMHQMSDLSVLANFSQPEITVTSNRTENSIGIINLTCSIIQGYPEPKEMYFQNTENS 180
Db 121 LVPMHQMSDLSVLANFSQPEITVTSNRTENSIGIINLTCSIIQGYPEPKEMYFQNTENS 180
QY 181 TTKYDVTVMKSSQNNVTLYNVSISLPSFVPEAHNVSVFCALKLETLEMLLSLPPFNIDAQ 240
Db 181 TTKYDVTVMKSSQNNVTLYNVSISLPSFVPEAHNVSVFCALKLETLEMLLSLPPFNIDAQ 240
QY 241 KDKDPEQGHFLWIAAALVLMVFCGMVSPKTLRKRKKQPGPSHECETIKRERKESKQTN 300
Db 241 KDKDPEQGHFLWIAAALVLMVFCGMVSPKTLRKRKKQPGPSHECETIKRERKESKQTN 300
QY 301 ERVPYHVPSRDEAQCWNILKTASGDKN 328
Db 301 ERVPYHVPSRDEAQCWNILKTASGDKN 328

RESULT 9

US-09-062-597A-7
; Sequence 7, Application US/09062597A
; GENERAL INFORMATION:
; APPLICANT: Sim, Gek-Kee
; APPLICANT: Yang, Shumin
; APPLICANT: Sellins, Karen S.
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY
; TITLE OF INVENTION: PROTEINS, NUCLEIC ACID MOLECULES, AND
; TITLE OF INVENTION: USES THEREOF
; NUMBER OF SEQUENCES: 29
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Carol Talkington Verser, Ph.D.
; STREET: 1825 Sharp Point Drive
; CITY: Fort Collins
; STATE: Colorado
; COUNTRY: USA
; ZIP: 80525

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; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: Windows 95
; SOFTWARE: WordPerfect for Windows, Version 7.0
; CURRENT APPLICATION DATA: US/09/062,597A
; APPLICATION NUMBER: 17-APR-1998
; FILING DATE: 17-APR-1998
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Verser, Carol Talkington
; REGISTRATION NUMBER: 37,459
; REFERENCE/DOCKET NUMBER: IM-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 970/493-7272
; TELEFAX: 970/484-9505
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 329 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: Protein
; US-09-062-597A-7

Query Match 79.0%; Score 1372; DB 14; Length 329;
Best Local Similarity 81.7%; Pred. No. 1.7e-122;
Matches 263; Conservative 22; Mismatches 35; Indels 2; Gaps 2;

QY 7 TMGLSHLLVMALLSGVSSMKSOAYFNKGTGELPCHFTNSQNSLDELVVFVWQDQDKLVL 66
DB 6 TMELNNILFWMTLLLYGAASMKSOAYFNKGTGELPCHFTNSQNSLDELVVFVWQDQDKLVL 65
QY 67 YEIFRGKENPQNVHLKYKGRTSFDKONWTLRLHNVOIKDKGTYHCFHYKGPGLVPMHQ 126
DB 66 YELYRGKENPQNVHRKYKGRTSFDKONWTLRLHNIQIKDKGLYQCFVHHKGPGLVPMHQ 125
QY 127 MSSDLVLANFSQPEITVTSNRTENSIGIINLTCSISIQGYPEPKEMFQLNTENSTTKYDT 186
DB 126 MNSDLVLANFSQPEIMVTSNRTENSIGIINLTCSISIQGYPEPKEMFVLKVTENSSTKYDT 185
QY 187 VMKKSQNNVTLYNVSISLPSFVPEAHNVSVFCAKLETLEMLLSLPFNIDAQPKDKDPE 246
DB 186 VMKKSQNNVTLYNVSISLPSFVPEASNVISFVQLQESMK-LPSLPYNIDAHTK-PTPD 243
QY 247 QGHFLWIAAALVLMVFCGMVSVFKTLRKRRKKQPGPSHECETIKRERKESKQTNERVYPH 306
DB 244 GDHILWIAALLVLMVLVILCGMVFFLTILRKRRKKQPGPSHECETNKVERKESQTKERVYH 303
QY 307 VPERDEAQCWNILKTASGDN 328
DB 304 ETERSDEAQCWNISKTASGDN 325

RESULT 10
US-09-646-561-7
; Sequence 7, Application US/09646561
; GENERAL INFORMATION:
; APPLICANT: Sim, Gek-Kee
; APPLICANT: Yang, Shumin
; APPLICANT: Sellins, Karen S.
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY PROTEINS, NUCLEIC
; FILE REFERENCE: IM-1-C1-PCT
; CURRENT APPLICATION NUMBER: US/09/646,561
; CURRENT FILING DATE: 2000-09-19
; PRIOR APPLICATION NUMBER: 60/078,765
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 09/062,597
; PRIOR FILING DATE: 1998-04-17
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7
; LENGTH: 329

; TYPE: PRT
; ORGANISM: Canis familiaris
; US-09-646-561-7
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; TYPE: PRT
; ORGANISM: Canis familiaris
; US-09-646-561-7

Query Match 79.0%; Score 1372; DB 20; Length 329;
Best Local Similarity 81.7%; Pred. No. 1.7e-122;
Matches 263; Conservative 22; Mismatches 35; Indels 2; Gaps 2;

QY 7 TMGLSHLLVMALLSGVSSMKSOAYFNKGTGELPCHFTNSQNSLDELVVFVWQDQDKLVL 66
DB 6 TMELNNILFWMTLLLYGAASMKSOAYFNKGTGELPCHFTNSQNSLDELVVFVWQDQDKLVL 65
QY 67 YEIFRGKENPQNVHLKYKGRTSFDKONWTLRLHNVOIKDKGTYHCFHYKGPGLVPMHQ 126
DB 66 YELYRGKENPQNVHRKYKGRTSFDKONWTLRLHNIQIKDKGLYQCFVHHKGPGLVPMHQ 125
QY 127 MSSDLVLANFSQPEITVTSNRTENSIGIINLTCSISIQGYPEPKEMFQLNTENSTTKYDT 186
DB 126 MNSDLVLANFSQPEIMVTSNRTENSIGIINLTCSISIQGYPEPKEMFVLKVTENSSTKYDT 185
QY 187 VMKKSQNNVTLYNVSISLPSFVPEAHNVSVFCAKLETLEMLLSLPFNIDAQPKDKDPE 246
DB 186 VMKKSQNNVTLYNVSISLPSFVPEASNVISFVQLQESMK-LPSLPYNIDAHTK-PTPD 243
QY 247 QGHFLWIAAALVLMVFCGMVSVFKTLRKRRKKQPGPSHECETIKRERKESKQTNERVYPH 306
DB 244 GDHILWIAALLVLMVLVILCGMVFFLTILRKRRKKQPGPSHECETNKVERKESQTKERVYH 303
QY 307 VPERDEAQCWNILKTASGDN 328
DB 304 ETERSDEAQCWNISKTASGDN 325

RESULT 11
US-10-069-626-19
; Sequence 19, Application US/10069626
; GENERAL INFORMATION:
; APPLICANT: Green et al.
; TITLE OF INVENTION: Polynucleotides Encoding Members of the Human B
; TITLE OF INVENTION: Lymphocyte Activation Antigen B-7 Family and
; TITLE OF INVENTION: Polypeptides Encoded Thereby
; FILE REFERENCE: 15966-562 NATL
; CURRENT APPLICATION NUMBER: US/10/069,626
; CURRENT FILING DATE: 2002-07-25
; PRIOR APPLICATION NUMBER: PCT/US00/24220
; PRIOR FILING DATE: 2000-08-31
; PRIOR APPLICATION NUMBER: 60/152383
; PRIOR FILING DATE: 1999-09-03
; PRIOR APPLICATION NUMBER: 60/172909
; PRIOR FILING DATE: 1999-12-21
; PRIOR APPLICATION NUMBER: 60/183578
; PRIOR FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: 09/651200
; PRIOR FILING DATE: 2000-08-30
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 19
; LENGTH: 329
; TYPE: PRT
; ORGANISM: Canis familiaris
; US-10-069-626-19

Query Match 79.0%; Score 1372; DB 26; Length 329;
Best Local Similarity 81.7%; Pred. No. 1.7e-122;
Matches 263; Conservative 22; Mismatches 35; Indels 2; Gaps 2;

QY 7 TMGLSHLLVMALLSGVSSMKSOAYFNKGTGELPCHFTNSQNSLDELVVFVWQDQDKLVL 66
DB 6 TMELNNILFWMTLLLYGAASMKSOAYFNKGTGELPCHFTNSQNSLDELVVFVWQDQDKLVL 65
QY 67 YEIFRGKENPQNVHLKYKGRTSFDKONWTLRLHNVOIKDKGTYHCFHYKGPGLVPMHQ 126
DB 66 YELYRGKENPQNVHRKYKGRTSFDKONWTLRLHNIQIKDKGLYQCFVHHKGPGLVPMHQ 125
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QY 127 MSSDLVLANFSPQPEITVTSNRNTEGSIINLTCSISQGYPEPKEMYFQNLNTENSTTKYDT 186
Db 126 MNSDLVLANFSPQPEITVTSNRNTEGSIINLTCSISQGYPEPKEMYFQNLNTENSTTKYDT 185
QY 187 VMKKSQNNVTLYNVSISLPSFSPVPEAHNVSVFCALKLETLEMLLSLPFNIDAPQDKDPE 246
Db 186 VMKKSQNNVTLYNVSISLPSFSPVPEAHNVSVFCALKLETLEMLLSLPFNIDAPQDKDPE 243
QY 247 QGHFLWIAAVLVMFVFCGMVSPKTLRKRRKKQPGPSHECETIKRKRKESKOTNERVPYH 306
Db 244 GDHILWIAALLVMLVILCGMVFFTLRKRRKKQPGPSHECETIKRKRKESKOTNERVPYH 303
QY 307 VPERDEAOCVNILKTASGDKN 328
Db 304 ETERSDEAOCVNISKTAGSDNS 325

RESULT 12

US-10-790-396-7
; Sequence 7, Application US/10790396
; GENERAL INFORMATION:
; APPLICANT: Sim, Gek-Kee
; APPLICANT: Yang, Shumin
; APPLICANT: Sellins, Karen S.
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY
; TITLE OF INVENTION: ACID MOLECULES, AND USES THEREOF
; FILE REFERENCE: IM-1-CI-PCT
; CURRENT APPLICATION NUMBER: US/10/790,396
; CURRENT FILING DATE: 2004-03-01
; PRIOR APPLICATION NUMBER: US/09/646,561
; PRIOR FILING DATE: 2000-09-19
; PRIOR APPLICATION NUMBER: 60/078,765
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: 09/062,597
; PRIOR FILING DATE: 1998-04-17
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 7
; LENGTH: 329
; TYPE: PRT
; ORGANISM: Canis familiaris
US-10-790-396-7

Query Match 79.0%; Score 1372; DB 33; Length 329;
Best Local Similarity 81.7%; Pred. No. 1.7e-122;
Matches 263; Conservative 22; Mismatches 35; Indels 2; Gaps 2;

QY 7 TWGLSHTLLVMALLSGVSSMKSQAYFNKTGELPCHFTNSQNSISLDELVVFQDQDKLVL 66
Db 6 TWELNNILFWMTLLLYGAASMKSQAYFNKTGELPCHFTNSQNSISLDELVVFQDQDKLVL 65
QY 67 YEIFRGKENPQNVHLKYKRTSFDKDNWTLRLHNVQIKDGTGTHCFHYKPGKGLVPMHQ 126
Db 66 YELYRGKENPQNVHRKYKRTSFDKDNWTLRLHNIQIKDKGLYQCFVHHKPGKGLVPMHQ 125
QY 127 MSSDLVLANFSPQPEITVTSNRNTEGSIINLTCSISQGYPEPKEMYFQNLNTENSTTKYDT 186
Db 126 MNSDLVLANFSPQPEITVTSNRNTEGSIINLTCSISQGYPEPKEMYFQNLNTENSTTKYDT 185
QY 187 VMKKSQNNVTLYNVSISLPSFSPVPEAHNVSVFCALKLETLEMLLSLPFNIDAPQDKDPE 246
Db 186 VMKKSQNNVTLYNVSISLPSFSPVPEAHNVSVFCALKLETLEMLLSLPFNIDAPQDKDPE 243
QY 247 QGHFLWIAAVLVMFVFCGMVSPKTLRKRRKKQPGPSHECETIKRKRKESKOTNERVPYH 306
Db 244 GDHILWIAALLVMLVILCGMVFFTLRKRRKKQPGPSHECETIKRKRKESKOTNERVPYH 303
QY 307 VPERDEAOCVNILKTASGDKN 328
Db 304 ETERSDEAOCVNISKTAGSDNS 325

RESULT 13

US-09-062-597A-17
; Sequence 17, Application US/09062597A
; GENERAL INFORMATION:
; APPLICANT: Sim, Gek-Kee
; APPLICANT: Yang, Shumin
; APPLICANT: Sellins, Karen S.
; TITLE OF INVENTION: NOVEL FORMS OF T CELL COSTIMULATORY
; TITLE OF INVENTION: PROTEINS, NUCLEIC ACID MOLECULES, AND
; TITLE OF INVENTION: USES THEREOF
; NUMBER OF SEQUENCES: 29
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Carol Talkington Verser, Ph.D.
; ADDRESSEE: Heska Corporation
; STREET: 1825 Sharp Point Drive
; CITY: Fort Collins
; STATE: Colorado
; COUNTRY: USA
; ZIP: 80525
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: Windows 95
; SOFTWARE: WordPerfect for Windows, Version 7.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/062,597A
; FILING DATE: 17-APR-1998
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Verser, Carol Talkington
; REGISTRATION NUMBER: 37,459
; REFERENCE/DOCKET NUMBER: IM-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 970/493-7272
; TELEFAX: 970/484-9505
; INFORMATION FOR SEQ ID NO: 17:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 280 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: Protein
US-09-062-597A-17

Query Match 66.6%; Score 1157.5; DB 14; Length 280;
Best Local Similarity 70.8%; Pred. No. 6e-102;
Matches 228; Conservative 19; Mismatches 24; Indels 51; Gaps 2;

QY 7 TWGLSHTLLVMALLSGVSSMKSQAYFNKTGELPCHFTNSQNSISLDELVVFQDQDKLVL 66
Db 6 TWELNNILFWMTLLLYGAASMKSQAYFNKTGELPCHFTNSQNSISLDELVVFQDQDKLVL 65
QY 67 YEIFRGKENPQNVHLKYKRTSFDKDNWTLRLHNVQIKDGTGTHCFHYKPGKGLVPMHQ 126
Db 66 YELYRGKENPQNVHRKYKRTSFDKDNWTLRLHNIQIKDKGLYQCFVHHKPGKGLVPMHQ 125
QY 127 MSSDLVLANFSPQPEITVTSNRNTEGSIINLTCSISQGYPEPKEMYFQNLNTENSTTKYDT 186
Db 126 MNSDLVLANFSPQPEITVTSNRNTEGSIINLTCSISQGYPEPKEMYFQNLNTENSTTKYDT 185
QY 187 VMKKSQNNVTLYNVSISLPSFSPVPEAHNVSVFCALKLETLEMLLSLPFNIDAPQDKDPE 246
Db 186 VMKKSQNNVTLYNVSISLPSFSPVPEAHNVSVFCALKLETLEMLLSLPFNIDAPQDKDPE 234
QY 247 QGHFLWIAAVLVMFVFCGMVSPKTLRKRRKKQPGPSHECETIKRKRKESKOTNERVPYH 306
Db 235 -----ETNKVERKESQTKERVYH 254
QY 307 VPERDEAOCVNILKTASGDKN 328
Db 255 ETERSDEAOCVNISKTAGSDNS 276

RESULT 14

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OM protein - protein search, using sw model

Run on: August 17, 2005, 18:54:53 ; Search time 70 Seconds
(without alignments)
729.917 Million cell updates/sec

Title: US-09-303-510-6
Perfect score: 1737
Sequence: 1 MGLCDSTMGLSHTLLVALL.....RSDEAQCYNILKTASGDKNQ 329

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 715561 seqs, 155301442 residues

Total number of hits satisfying chosen parameters: 715561

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Pending Patents AA New.*
1: /cgn2_6/ptodata/2/paa/pct_NEW_COMB.pep.*
2: /cgn2_6/ptodata/2/paa/US06_NEW_COMB.pep.*
3: /cgn2_6/ptodata/2/paa/US07_NEW_COMB.pep.*
4: /cgn2_6/ptodata/2/paa/US08_NEW_COMB.pep.*
5: /cgn2_6/ptodata/2/paa/US09_NEW_COMB.pep.*
6: /cgn2_6/ptodata/2/paa/US10_NEW_COMB.pep.*
7: /cgn2_6/ptodata/2/paa/US11_NEW_COMB.pep.*
8: /cgn2_6/ptodata/2/paa/US60_NEW_COMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1157	66.6	330	7	US-11-170-797-14
2	932	53.7	372	6	US-10-940-774A-11132
3	903	52.0	329	1	PCT-US05-18790-57
4	898	51.7	323	1	PCT-US05-18790-55
5	898	51.7	323	6	US-10-998-526-5
6	898	51.7	323	7	US-11-027-053-4
7	898	51.7	323	7	US-11-120-927-16
8	898	51.7	323	7	US-11-170-797-3
9	743.5	42.8	351	6	US-10-960-855-18
10	687.5	39.6	219	7	US-11-120-927-22
11	640.5	36.9	309	7	US-11-170-797-10
12	229.5	13.2	306	5	US-09-890-729A-9
13	229.5	13.2	314	7	US-11-170-797-8
14	213	12.3	288	1	PCT-US05-18790-53
15	213	12.3	288	7	US-11-027-053-2
16	213	12.3	288	7	US-11-120-927-15
17	213	12.3	288	7	US-11-170-797-1
18	203	11.7	283	1	PCT-US04-19179-4
19	203	11.7	283	1	PCT-US04-19179-6
20	203	11.7	283	6	US-10-871-696-4
21	203	11.7	283	6	US-10-871-696-6
22	200.5	11.5	216	6	US-10-461-000-23
23	200.5	11.5	226	7	US-11-120-927-21
24	197.5	11.4	224	6	US-10-998-526-4
25	192	11.1	271	1	PCT-US05-15207-1602

26 192 11.1 282 6 US-10-184-644-218 Sequence 218, App
27 192 11.1 282 6 US-10-192-007-218 Sequence 218, App
28 192 11.1 282 6 US-10-063-653A-60 Sequence 60, Appl
29 192 11.1 282 6 US-10-063-652A-60 Sequence 60, Appl
30 192 11.1 282 6 US-10-180-554-218 Sequence 218, App
31 192 11.1 282 6 US-10-063-560-60 Sequence 60, Appl
32 192 11.1 282 6 US-10-063-738A-60 Sequence 60, Appl
33 192 11.1 282 6 US-10-179-524-218 Sequence 218, App
34 192 11.1 282 6 US-10-063-727A-60 Sequence 60, Appl
35 192 11.1 282 6 US-10-063-638A-60 Sequence 60, Appl
36 192 11.1 282 6 US-10-063-639A-60 Sequence 60, Appl
37 192 11.1 282 7 US-11-050-926-348 Sequence 348, App
38 192 11.1 282 7 US-11-120-927-5 Sequence 5, Appl
39 192 11.1 282 7 US-11-154-939-1625 Sequence 1625, Ap
40 192 11.1 282 7 US-11-167-575-1625 Sequence 60, Appl
41 192 11.1 282 7 US-11-102-240-60 Sequence 60, Appl
42 192 11.1 282 7 US-11-103-195-60 Sequence 60, Appl
43 192 11.1 282 7 US-11-101-316-60 Sequence 60, Appl
44 192 11.1 282 7 US-11-102-284-60 Sequence 60, Appl
45 188.5 10.9 227 7 US-11-120-927-19 Sequence 19, Appl

ALIGNMENTS

RESULT 1
US-11-170-797-14
; Sequence 14, Application US/11170797
; GENERAL INFORMATION:
; APPLICANT: Lechler, Robert
; APPLICANT: Rogers, Nicholas
; APPLICANT: Dörfling, Anthony
; APPLICANT: ML Laboratories PLC
; TITLE OF INVENTION: IMPROVEMENT OF TOLERANCE TO A ZENOGRAPH
; FILE REFERENCE: 5585-59112-02
; CURRENT APPLICATION NUMBER: US/11/170,797
; PRIOR FILING DATE: 2005-06-28
; PRIOR APPLICATION NUMBER: US 09/868,605
; PRIOR FILING DATE: 2001-06-19
; PRIOR APPLICATION NUMBER: PCT/GB99/04200
; PRIOR FILING DATE: 1999-12-17
; PRIOR APPLICATION NUMBER: 9827921.9
; PRIOR FILING DATE: 1998-12-19
; PRIOR APPLICATION NUMBER: 9925015.1
; PRIOR FILING DATE: 1999-10-23
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 14
; LENGTH: 330
; TYPE: PRT
; ORGANISM: Porcusp spp
US-11-170-797-14

Query Match 66.6%; Score 1157; DB 7; Length 330;
Best Local Similarity 70.1%; Pred. No. 2.9e-80;
Matches 227; Conservative 35; Mismatches 56; Indels 6; Gaps 5;

Qy 8 MGLSHTLLVALLSGVSSMKSQAYENKTGELPCHFTNSQNSLDELVFWQDDKLVLV 67
Db 1 MGLSNTLFYVWLLSGLSAAKLSQAYFNETGELPCHFTNSQNSLDELVFWQDDNLVLV 60
Qy 68 EIFRGKENPQVHLKYKGRTSFDKNWTLRLHNQVQKDKGTGTHCFHYKGPGLVPMHQM 127
Db 61 ELYRGQEKPHNVNSKYNKGRTSFDQATWTLRLHNQVQKDKGSYQCFIHHKPGHLVPHQM 120
Qy 128 SSDLSVLNFSQFEITVTNSNRNTNSGIIINLTSSIQGYPEPKEMYFQALNTENSTTKYDVT 187
Db 121 SSDLSVLNFSQFEINLLNHTENS-VINLTCSSTQGYPEPQMYMLLNTKSTTEHDAD 179
Qy 188 MKKSQNNVTLEINVSLSPFSVPEAHNVFCALKLETLEMLL-SLPFNIDAQPKDKDPE 246
Db 180 MKKSQNNITELNVNSIRVSLPIPPETNVSVICVLQLEPSKTLFLSLPCNIDAKPPVQPPV 239

QY 8 MGLSHTLLVMALLSGVSSMKSOAYFNKGTGELPCHFTNSQNI SLDELVFWQDQDKLVLY 67
Db 1 MGLSNILFVMAFLLSGAAPLKI QAYFNETADLP CQFANSQNSLSLVFWQDQENLVN 60
QY 68 EIFRGKENPONVHLKYKGRTSFQDNWTLRLHNVQIKDKGTYHCFHYKGPGLVPMHOM 127
Db 61 EYVLGKEKFDVSVHSGYMGRTSFDSDSWTLRLHNLQIKDKGLYQCIHHKKPTGMIRIHO 120
QY 128 SSDLSVLNFSQPEITVTNSRNTENSGIINLTCSIOGYPEPKMYFQALNTENSTTKYDVT 187
Db 121 NSELVLNFSQPEIPIVSNITENV-YINLTCSIHGYPEPKMVSLLRTKNSITIEDGI 179
QY 188 MKSQNNVTLYNVISLPSVPE-AHNVSVCALKLETLEMLLSLPFNIDAQPKDKDPE 246
Db 180 MOKSQDNVTLYDVSISLSVSPFDVTSNMTIFCILETDKTR-LLSPFFSIELE--DPQPP 236
QY 247 QGHFLWIAAVLVMFVCGMVSFKTLRK-RKKQOPGSHCECTIKRKESKOTNERVPY 305
Db 237 PDHIPWITAVLPT-VIICVMVFCLILWKWKKKRPRNSYKCGTNTMERESBQTKREKI 295
QY 306 HVPERSDEAOCV-NILKTASGDN 328
Db 296 HIPERSDEAQRVFKSKTSCKDS 319

RESULT 8

US-11-170-797-3
; Sequence 3, Application US/11170797
; GENERAL INFORMATION:
; APPLICANT: Lechler, Robert
; APPLICANT: Rogers, Nichola
; APPLICANT: Dorling, Anthony
; APPLICANT: ML Laboratories PLC
; TITLE OF INVENTION: IMPROVEMENT OF TOLERANCE TO A XENOGRAFT
; FILE REFERENCE: 5585-59112-02
; CURRENT APPLICATION NUMBER: US/11/170,797
; PRIOR FILING DATE: 2005-06-28
; PRIOR APPLICATION NUMBER: US 09/868,605
; PRIOR FILING DATE: 2001-06-19
; PRIOR APPLICATION NUMBER: PCT/GB99/04200
; PRIOR FILING DATE: 1999-12-17
; PRIOR APPLICATION NUMBER: 9827921.9
; PRIOR FILING DATE: 1998-12-19
; PRIOR APPLICATION NUMBER: 9925015.1
; PRIOR FILING DATE: 1999-10-23
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: Patent in Ver. 2.1
; SEQ ID NO 3
; LENGTH: 323
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-170-797-3

Query Match 51.7%; Score 898; DB 7; Length 323;
Best Local Similarity 58.3%; Pred. No. 1.4e-60;
Matches 189; Conservative 44; Mismatches 83; Indels 8; Gaps 7;

QY 8 MGLSHTLLVMALLSGVSSMKSOAYFNKGTGELPCHFTNSQNI SLDELVFWQDQDKLVLY 67
Db 1 MGLSNILFVMAFLLSGAAPLKI QAYFNETADLP CQFANSQNSLSLVFWQDQENLVN 60
QY 68 EIFRGKENPONVHLKYKGRTSFQDNWTLRLHNVQIKDKGTYHCFHYKGPGLVPMHOM 127
Db 61 EYVLGKEKFDVSVHSGYMGRTSFDSDSWTLRLHNLQIKDKGLYQCIHHKKPTGMIRIHO 120
QY 128 SSDLSVLNFSQPEITVTNSRNTENSGIINLTCSIOGYPEPKMYFQALNTENSTTKYDVT 187
Db 121 NSELVLNFSQPEIPIVSNITENV-YINLTCSIHGYPEPKMVSLLRTKNSITIEDGI 179
QY 188 MKSQNNVTLYNVISLPSVPE-AHNVSVCALKLETLEMLLSLPFNIDAQPKDKDPE 246
Db 180 MOKSQDNVTLYDVSISLSVSPFDVTSNMTIFCILETDKTR-LLSPFFSIELE--DPQPP 236

QY 247 QGHFLWIAAVLVMFVCGMVSFKTLRK-RKKQOPGSHCECTIKRKESKOTNERVPY 305
Db 237 PDHIPWITAVLPT-VIICVMVFCLILWKWKKKRPRNSYKCGTNTMERESBQTKREKI 295
QY 306 HVPERSDEAOCV-NILKTASGDN 328
Db 296 HIPERSDEAQRVFKSKTSCKDS 319

RESULT 9

US-10-960-855-18
; Sequence 18, Application US/10960855
; GENERAL INFORMATION:
; APPLICANT: ALBANI, SALVATORE
; TITLE OF INVENTION: METHODS FOR ISOLATION, QUANTIFICATION, CHARACTERIZATION
; FILE REFERENCE: AND-1001-CP2
; CURRENT APPLICATION NUMBER: US/10/960,855
; CURRENT FILING DATE: 2004-10-06
; PRIOR APPLICATION NUMBER: 60/510,645
; PRIOR FILING DATE: 2003-10-10
; PRIOR APPLICATION NUMBER: 09/756,983
; PRIOR FILING DATE: 2001-01-09
; PRIOR APPLICATION NUMBER: 09/421,506
; PRIOR FILING DATE: 1999-10-19
; PRIOR APPLICATION NUMBER: PCT/US99/2466
; PRIOR FILING DATE: 1999-10-19
; PRIOR APPLICATION NUMBER: 60/105,018
; PRIOR FILING DATE: 1998-10-20
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: Patent in Ver. 3.3
; SEQ ID NO 18
; LENGTH: 351
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: fusion construct with human and bacterial
; OTHER INFORMATION: sequences
US-10-960-855-18

Query Match 42.8%; Score 743.5; DB 6; Length 351;
Best Local Similarity 61.3%; Pred. No. 8.7e-49;
Matches 149; Conservative 32; Mismatches 57; Indels 5; Gaps 4;

QY 8 MGLSHTLLVMALLSGVSSMKSOAYFNKGTGELPCHFTNSQNI SLDELVFWQDQDKLVLY 67
Db 1 MGLSNILFVMAFLLSGAAPLKI QAYFNETADLP CQFANSQNSLSLVFWQDQENLVN 60
QY 68 EIFRGKENPONVHLKYKGRTSFQDNWTLRLHNVQIKDKGTYHCFHYKGPGLVPMHOM 127
Db 61 EYVLGKEKFDVSVHSGYMGRTSFDSDSWTLRLHNLQIKDKGLYQCIHHKKPTGMIRIHO 120
QY 128 SSDLSVLNFSQPEITVTNSRNTENSGIINLTCSIOGYPEPKMYFQALNTENSTTKYDVT 187
Db 121 NSELVLNFSQPEIPIVSNITENV-YINLTCSIHGYPEPKMVSLLRTKNSITIEDGI 179
QY 188 MKSQNNVTLYNVISLPSVPE-AHNVSVCALKLETLEMLLSLPFNIDAQPKDKDPE 246
Db 180 MOKSQDNVTLYDVSISLSVSPFDVTSNMTIFCILETDKTR-LLSPFFSIELE--DPQPP 236
QY 247 QGH 249
Db 237 PDH 239

RESULT 10

US-11-120-927-22
; Sequence 22, Application US/11120927
; GENERAL INFORMATION:
; APPLICANT: Chen, Lieping
; TITLE OF INVENTION: B7-H3 AND B7-H4, NOVEL IMMUNOREGULATORY
; TITLE OF INVENTION: MOLECULES

FILE REFERENCE: 07039-219001
CURRENT APPLICATION NUMBER: US/11/120,927
CURRENT FILING DATE: 2005-05-02
PRIOR APPLICATION NUMBER: US/09/915,789
PRIOR FILING DATE: 2001-07-01
PRIOR APPLICATION NUMBER: US 60/220,991
PRIOR FILING DATE: 2000-07-27
NUMBER OF SEQ ID NOS: 23
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 22
LENGTH: 219
TYPE: PRT
ORGANISM: Homo sapiens
US-11-120-927-22

Query Match 39.6%; Score 687.5; DB 7; Length 219;
Best Local Similarity 61.5%; Pred. No. 9.3e-45;
Matches 136; Conservative 30; Mismatches 50; Indels 5; Gaps 4;
QY 30 QAYPNKGTGELPCHFTNSQNSLDELVVFWDQDKLVLYEIFRGKENPQNVHLKYKGRTSF 89
DB 1 QAYFNETADLPCCQFANSONQSLSELVVFWDQENLVNEVLGKEKFDVSHSKYMGRTSF 60
QY 90 DKDNTLRLHNQIKDKGTGCHFYHKGPKGLVPMHOMSSDLVLANFSPQETVTSNRT 149
DB 61 DSDSWTLRLNLQIKDKGLYQCIHKKPKTGIRIHQMSLSVLANFSPQETVTSNRT 120
QY 150 ENSGIINLTSSIQGYPEPKEMYFQNTENSTTKYDTVMKKSQNNVTLYNVSISLPSFV 209
DB 121 ENV-YINLTSSINGYPEPKMSVLLTKNSTIYDGIOMKQSDNVTELYDVSISUSVF 179
QY 210 PE-AHNVSVFCAKLETLEMLSLPFDNIDAPKDKPEQGH 249
DB 180 PDVTSNMTIFCILETDKTR-LLSPFSIELE--DPQPPPDH 217

RESULT 11
US-11-170-797-10
Sequence 10, Application US/11170797
GENERAL INFORMATION:
APPLICANT: Lechler, Robert
APPLICANT: Rogers, Nicholas
APPLICANT: Dorling, Anthony
APPLICANT: MU Laboratories PLC
TITLE OF INVENTION: IMPROVEMENT OF TOLERANCE TO A ZENOGRAPH
FILE REFERENCE: 5585-59112-02
CURRENT APPLICATION NUMBER: US/11/170,797
CURRENT FILING DATE: 2005-06-28
PRIOR APPLICATION NUMBER: US 09/868,605
PRIOR FILING DATE: 2001-06-19
PRIOR APPLICATION NUMBER: PCT/GB99/04200
PRIOR FILING DATE: 1999-12-17
PRIOR APPLICATION NUMBER: 9827921.9
PRIOR FILING DATE: 1998-12-19
PRIOR APPLICATION NUMBER: 9925015.1
PRIOR FILING DATE: 1999-10-23
NUMBER OF SEQ ID NOS: 39
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 10
LENGTH: 309
TYPE: PRT
ORGANISM: Mus musculus
US-11-170-797-10

Query Match 36.9%; Score 640.5; DB 7; Length 309;
Best Local Similarity 46.8%; Pred. No. 5.2e-41;
Matches 140; Conservative 54; Mismatches 86; Indels 19; Gaps 8;
QY 7 TMGLSHLLVYALLSGVSSMKSQAYENKGTGELPCHFTNSQNSLDELVVFWDQDKLV 66
DB 6 TMGLAILFVTVLLISDAVSVEQYFNGTAYLPCPFTKAQNTLSLSELVVFWDQDKLV 65
QY 67 YEIFRGKENPQNVHLKYKGRTSFQDKDNTLRLHNQIKDKGTGCHFYHKGPKGLVPMH 126

DB 66 YEHYLTGKLDSDVNAKYLGRSTSDRNNWTLRLHNQIKDKGTGCHFYHKGPKGLVPMH 125
QY 127 MSSDLVLANFSPQETVTSNRTENSGIINLTSSIQGYPEPKEMYFQNTENSTTKYDT 186
DB 126 TLTLSVIANFSPQETVTSNRTENSGIINLTCTSKQHPKPKKMYFLIT--NSTNEYGD 182
QY 187 VMKKSQNNVTLYNVSISLPSFVPE-AHNVSVFCAKLETLEMLSLPFDNIDAPKDKPE 242
DB 183 NMQISQDNVTLPFSLNSLSLSPFDGVMHMTVVCVLETSMK-ISSKPLNFTQEPSPQT 241
QY 243 KDPEQGHFLWIAAVLYM-FVWPCGMVSFKTLRKRKKKQPG-PSHECETIKRERESKQT 299
DB 242 YWKEITASVTALLVLLIIVC-----HKKPNQSPRPSNTASKLERDSNADRET 291

RESULT 12
US-09-890-729A-9
Sequence 9, Application US/09890729A
GENERAL INFORMATION:
APPLICANT: YOSHINAGA, STEVEN KIYOSHI
TITLE OF INVENTION: POLYPEPTIDES INVOLVED IN IMMUNE RESPONSE
FILE REFERENCE: A-579B
CURRENT APPLICATION NUMBER: US/09/890,729A
CURRENT FILING DATE: 2001-08-03
PRIOR APPLICATION NUMBER: PCT US00/01871
PRIOR FILING DATE: 2000-01-27
PRIOR APPLICATION NUMBER: 09/264,527
PRIOR FILING DATE: 1999-03-08
PRIOR APPLICATION NUMBER: 09/244,448
PRIOR FILING DATE: 1999-02-03
NUMBER OF SEQ ID NOS: 37
SOFTWARE: PatentIn version 3.2
SEQ ID NO 9
LENGTH: 306
TYPE: PRT
ORGANISM: Mus musculus
US-09-890-729A-9

Query Match 13.2%; Score 229.5; DB 5; Length 306;
Best Local Similarity 24.8%; Pred. No. 9.3e-10;
Matches 79; Conservative 57; Mismatches 128; Indels 57; Gaps 12;
QY 14 LLVWALLSGVSSMKSQAYENKGTG---LPCHFTNSQNSLDELVVFWDQDKLVLYEIF 70
DB 24 LFLVLLRLSQVSDVDVEQLSKSVKDLVLPCTY-NSPHEDESEDRIYWKHKDKVL-SVI 81
QY 71 RGENPQNVHLKYKGRTSFQDKDNTLRLHNQIKDKGTGCHFYHKGPKGLVPMHQMSSD 130
DB 82 AGK---LKVPEYKNRTLYDNTTYSLLILGLVLSDRGTYSVVQKRGRTYEVKHLALVK 138
QY 131 LSVLANFSPQETVTSNRTENSGIINLTCTSSIQGYPEPKEMYFQNTENSTTKYDT 186
DB 139 LSIKADFTFNITENSGNPSADTK--RITFASGGFPKPRFSLWENGRELPGINTTI--- 192
QY 187 VMKKSQNNVTLYNVSISLPSFVPEAHNVSVFCAKLETLEMLSLPFDNIDAPKDKPE 246
DB 193 ----SQDPESELYTISQDLDFTNTRHTIK--CLIKYG--DAHVSDFTWKEKPEDPDPS 244
QY 247 Q-----GHFLWIAAVLYM-FVWPCGMVSFKTLRKRKKKQPGSPSHECETIKRERES 296
DB 245 KNTLVLFAGAGFAGVITVVIVVIKFCF-----KHSRCSRNEAS 284
QY 297 KQTNERVPHVHVSDEAQC 317
DB 285 RETNNSLTTFG-PBEALAEQTV 304

RESULT 13
US-11-170-797-8
Sequence 8, Application US/11170797
GENERAL INFORMATION:
APPLICANT: Lechler, Robert

```
; APPLICANT: Rogers, Nicholas
; APPLICANT: Dorling, Anthony
; APPLICANT: ML Laboratories PLC
; TITLE OF INVENTION: IMPROVEMENT OF TOLERANCE TO A ZENOGRAPH
; FILE REFERENCE: 5885-59112-02
; CURRENT APPLICATION NUMBER: US/11/170,797
; CURRENT FILING DATE: 2005-06-28
; PRIOR APPLICATION NUMBER: US 09/868,605
; PRIOR FILING DATE: 2001-06-19
; PRIOR APPLICATION NUMBER: PCT/GB99/04200
; PRIOR FILING DATE: 1999-12-17
; PRIOR APPLICATION NUMBER: 9827921.9
; PRIOR FILING DATE: 1998-12-19
; PRIOR APPLICATION NUMBER: 9925015.1
; PRIOR FILING DATE: 1999-10-23
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: Patent in Ver. 2.1
; SEQ ID NO 8
; LENGTH: 314
; TYPE: PRT
; ORGANISM: Mus musculus
US-11-170-797-8

Query Match      13.2%; Score 229.5; DB 7; Length 314;
Best Local Similarity 24.6%; Pred. No. 9.6e-10;
Matches 79; Conservative 57; Mismatches 128; Indels 57; Gaps 12;

QY 14 LLYVALLSGVSSMKSQAYFNKGE---LPCHFTNSQNSLDELVFWQDQDKLYEYF 70
DB 32 LFVLLRLSQVSSDVEQLSKVSKDKVLLPCRY-NSPHEDESDRIYQKHDKVIL-SVI 89
QY 71 RGENPONVHLKYGRTPDKDNTLRLHNVQIKDKGTYHCFHYKGPGLVPMQWSSD 130
DB 90 AGK---LKWPEYKRNLYDNTYSLILGLVLSDRGTSCVVKRGTYEVKHLALVK 146
QY 131 LSVLANFSOPEITVTSNRTENSGIINLTCSIOGYPEPKEMYFQLNTE-----NSTTKYDT 186
DB 147 LSIKADFTENITESGNPSADTK--RITCFASGGFPKPRFSLWENGRELPGINTTI---- 200
QY 187 VMKKSQNNVTLYNVSISLPFSVPEAHNVSVFCAKLETLEMLLSLPFNIDAQPKDPE 246
DB 201 ----SQDPESELYTISQDLDFTNRNHTIK--CLIKYG--DAHVEDFTWEKPEPDPDS 252
QY 247 Q-----GHFLMTAAVLVMFVFCGMVSVFKTLRKRKKQPGPSHECETIKRKES 296
DB 253 KNTLVLFAGFGAVITVVIVLTKFC-----KHSFCFRNEAS 292
QY 297 KQTNRPVYHVPERSDEAQCV 317
DB 293 RETNNSLTFG-PBEALAEQTV 312
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RESULT 14
PCT-US05-18790-53
; Sequence 53, Application PC/TUS0518790
; GENERAL INFORMATION:
; APPLICANT: PRESIDENT AND FELLOWS OF HARVARD COLLEGE
; TITLE OF INVENTION: METHODS OF MODULATING THE REPRODUCTIVE ENDOCRINE SYSTEM
; FILE REFERENCE: HUI-055PC
; CURRENT APPLICATION NUMBER: PCT/US05/18790
; PRIOR APPLICATION NUMBER: 2005-06-06
; PRIOR FILING DATE: 2004-05-28
; NUMBER OF SEQ ID NOS: 99
; SOFTWARE: Patent in 3.3
; SEQ ID NO 53
; LENGTH: 288
; TYPE: PRT
; ORGANISM: Homo sapiens
PCT-US05-18790-53
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Query Match 12.3%; Score 213; DB 1; Length 288;

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Best Local Similarity 27.3%; Pred. No. 1.6e-08;
Matches 82; Conservative 48; Mismatches 116; Indels 54; Gaps 14;

QY 9 GLSHTLLVALLSGVSSMKSQAYFNKGTGELPCHFTNSQNSLDELV---VFWQDQDKLV 65
DB 27 GLSH-----FCSGVIHVTKEV--KEVATLSC---GHNVSVEELAQTRIYQKEKKW 73
QY 66 LYEIFRGKENPONVHLKYGRTPSD-KONWTLRLHNVQIKDKGTYHCFHYKGPGLVPM 124
DB 74 LTTM-----SGDMNIWPEYKNRTIFDTNNLSIVILALRPSDEGTVECVVLKYEKDAFKRE 129
QY 125 HQMSSDLSVLANSOPEITVTSNRTENSGIINLTCSIOGYPEPKEMYF---QLNTENS 180
DB 130 HLAEVTLSVKADFPPTPSISDFEIPISN--IRRIICSTSGGFPPEPHLSWLENGEELNAIT 187
QY 181 TTKYDTVMKKSQNNVTLYNVSISLPFSVPEAHNVSVFCAKLETLEMLLSLPFNIDAQ 240
DB 188 TV-----SQDPELEYAVSSKLDFTNMTNH--SFMCLIKYGHLLR--VNQTFNWNNTTK 235
QY 241 KDKDPEQGHFLW---IAAVLVMFVFCGMVSVFKTLRKRKKQPGPSHECETIKRKES 296
DB 236 QEHFPDNLPSWAITLISVNGIFVICCLTYCFAPRCRERRNE-----RLRRES 284
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RESULT 15
US-11-027-053-2
; Sequence 2, Application US/11027053
; GENERAL INFORMATION:
; APPLICANT: Newell, Martha K.
; TITLE OF INVENTION: METHODS AND PRODUCTS RELATED TO
; FILE REFERENCE: V0139/7028/HK
; CURRENT APPLICATION NUMBER: US/11/027,053
; CURRENT FILING DATE: 2004-12-30
; PRIOR APPLICATION NUMBER: US/09/277,575
; PRIOR FILING DATE: 1999-03-26
; PRIOR APPLICATION NUMBER: U.S. 60/082,250
; PRIOR FILING DATE: 1998-04-17
; PRIOR APPLICATION NUMBER: U.S. 60/094,519
; PRIOR FILING DATE: 1998-07-29
; PRIOR APPLICATION NUMBER: U.S. 60/101,580
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 288
; TYPE: PRT
; ORGANISM: Homo Sapiens
US-11-027-053-2
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Query Match      12.3%; Score 213; DB 7; Length 288;
Best Local Similarity 27.3%; Pred. No. 1.6e-08;
Matches 82; Conservative 48; Mismatches 116; Indels 54; Gaps 14;

QY 9 GLSHTLLVALLSGVSSMKSQAYFNKGTGELPCHFTNSQNSLDELV---VFWQDQDKLV 65
DB 27 GLSH-----FCSGVIHVTKEV--KEVATLSC---GHNVSVEELAQTRIYQKEKKW 73
QY 66 LYEIFRGKENPONVHLKYGRTPSD-KONWTLRLHNVQIKDKGTYHCFHYKGPGLVPM 124
DB 74 LTTM-----SGDMNIWPEYKNRTIFDTNNLSIVILALRPSDEGTVECVVLKYEKDAFKRE 129
QY 125 HQMSSDLSVLANSOPEITVTSNRTENSGIINLTCSIOGYPEPKEMYF---QLNTENS 180
DB 130 HLAEVTLSVKADFPPTPSISDFEIPISN--IRRIICSTSGGFPPEPHLSWLENGEELNAIT 187
QY 181 TTKYDTVMKKSQNNVTLYNVSISLPFSVPEAHNVSVFCAKLETLEMLLSLPFNIDAQ 240
DB 188 TV-----SQDPELEYAVSSKLDFTNMTNH--SFMCLIKYGHLLR--VNQTFNWNNTTK 235
QY 241 KDKDPEQGHFLW---IAAVLVMFVFCGMVSVFKTLRKRKKQPGPSHECETIKRKES 296
DB 236 QEHFPDNLPSWAITLISVNGIFVICCLTYCFAPRCRERRNE-----RLRRES 284
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Job time : 71 secs

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